

**2008 1st QUARTER GROUNDWATER
MONITORING REPORT**

**FORMER ANGELES CHEMICAL COMPANY FACILITY
8915 SORENSEN AVENUE SANTA FE SPRINGS, CALIFORNIA**

Prepared and Submitted to:

**Department of Toxic Substances Control
1011 N. Grandview Avenue
Glendale, CA 91201**

On Behalf Of:

**Greve Financial Services
7101 Western Avenue
Buena Park, CA 90670**

Prepared By:

**Clean Soil, Inc.
23811 Washington Avenue C-110
Suite 241
Murrieta, CA 92562
(951) 677-2111**

APRIL 2008

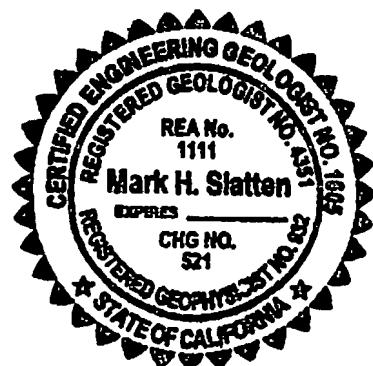
2008 1st QUARTER GROUNDWATER MONITORING REPORT

Former Angeles Chemical Company Facility
8915 Sorensen Avenue Santa Fe Springs, California

Prepared and Submitted to:
Department of Toxic Substances Control
1011 N. Grandview Avenue
Glendale, CA 91201

Prepared By:

Mark Slatten, RG/CEG, CHG/GP
Principal Scientist and CEO
Clean Soil, Inc.



Clean Soil, Inc.
23811 Washington Avenue C-110, Suite 241
Murrieta, CA 92562

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 1**

TABLE OF CONTENTS

1.0)	INTRODUCTION	3
2.0)	SITE DESCRIPTION	3
3.0)	PREVIOUS SITE ASSESSMENT WORK.....	3
4.0)	REGIONAL GEOLOGY/HYDROGEOLOGY	5
5.0)	SITE GEOLOGY/HYDROGEOLOGY	6
6.0)	GROUNDWATER MONITORING PROTOCOL	7
6.1)	Well Sampling	8
6.2)	Sample Handling	9
6.3)	Waste Management	9
7.0)	FREE PRODUCT	9
8.0)	GROUNDWATER SAMPLE RESULTS	10
9.0)	CONCLUSIONS.....	13
10.0)	RECOMMENDATIONS	14

FIGURES

Figure 1	Site Location Map
Figure 2	Monitoring Well Locations
Figure 3	First Water Potentiometric Gradient
Figure 4	A1 Zone Potentiometric Gradient
Figure 5	First Water Groundwater Elevation (Central & North)
Figure 6	First Water Groundwater Elevation Southern)
Figure 7	Upper A1 Groundwater Elevations
Figure 8	Lower A1 Groundwater Elevations
Figure 9	TPH-g and BTEX Concentrations in First Water
Figure 10	TPH-g and BTEX Concentrations in Upper and Lower A1 Zones
Figure 11	Chlorinated VOCs & 1,4 Dioxane Concentrations in First Water
Figure 12	Chlorinated VOCs & 1,4 Dioxane Concentrations in A1 Zones
Figure 13	Acetone , MEK, and MIBK in First Water
Figure 14	Acetone , MEK, and MIBK in Upper and Lower A1 Zones

TABLES

Table 1	Well & Screen Elevations and Groundwater Depths and Elevations
Table 2	TPH-g and VOCs from Free Product
Table 3	Conductivity, pH, and TPH-gas Groundwater Results
Table 4	Detected VOCs from Groundwater Results
Table 5	Detected VOCs from Diffusion Bag Groundwater Results
Table 6	Results from EPA Methods 376.1, 325.3, 310.1, 352.1, 375.4, 7380, 7460, 160.1, Colorimetry, and Standard Method 4500
Table 7	Dissolved Metals Sample Results
Table 8	Former Angeles Chemical Co. Free Product Removal Data Summary
SVE Table 1	Vapor Analyses
SVE Table 2	Mass Removal

APPENDIX A	Field Logs
APPENDIX B	Contaminant Graphs
APPENDIX C	Laboratory Reports and Chain of Custody
APPENDIX D	SOP for SVE Sample Collection

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 2**

ABSTRACT

Twenty-one groundwater-monitoring wells were gauged and seventeen wells were sampled for laboratory analysis at the former Angeles Chemical Company (ACC), Inc. facility, located at 8915 Sorensen Avenue, Santa Fe Springs, California, on March 13- and 14, 2008. The carbon-based SVE system was turned back on January 29, 2008 (after carbon replacement in the canisters). Approximately 2,664 pounds of VOCs were removed the past two quarters (3Q07 and 4Q07). Groundwater elevations dropped in half of all first water monitoring wells (MW-8, -10, -11, and -19) an average of less than 1 foot. The remaining first water wells (MW-9, -12, -16, -18, -22, and -26) rose anywhere from 0.36 to 4 feet. First water wells MW-4 and -6 were found to have no water in them and MW-18- and MW-22 have traces of water trapped in their end caps. The pattern created by contouring groundwater data (see **Figure 3** this report) suggests a northwest/southeast trending ridge of high groundwater, similar to those described in previous quarterly monitoring reports, which is centered mid-site. The southwestern flank of this ridge drops off steeply towards MW-22. The major difference between the groundwater contour map crafted last quarter (4th Quarter 2007) and the current map of first water elevations is the mound of groundwater that currently exists beneath MW-26, at the southern property boundary of Angeles and closest to offsite sources. This sudden surge of groundwater beneath MW-26 suggests lateral migration from an offsite source from the south for two reasons: historical groundwater elevation data do not show a mound of groundwater migrating across the site from north to south; and compounds such as acetone and MEK were detected in MW-26 at extremely high levels and currently nowhere else on the Angeles site. In the upper A1 zone monitoring wells (MW-13, -14, -15, -17, -20, and -21), groundwater elevations rose by a foot or less, resulting in a planar surface dipping to the west (see **Figure 4**). Groundwater levels rose by about a foot or less in all lower A1 monitoring wells (MW-23, -24, and -25).

Results of laboratory analyses show that the Site continues to be impacted by LNAPL in the first water zone monitoring wells MW-19 (a sheen and odor) and MW-18 (a sheen and odor). Elevated dissolved-phase VOCs were identified in first water zone monitoring wells MW-8, -9, -10, -11, -16, and -26. MW-4, -6, and -22 were not sampled this quarter because there was not enough water in the casings to collect a sample.

In both the upper A1 zone (MW-13, -14, -15, -17, -20, and -21) and lower A1 Zone (MW-23, -24, and -25), dissolved-phase VOCs were identified in all the monitoring wells sampled. Concentrations of dissolved-phase VOCs continue to fluctuate with groundwater elevations. Dissolved VOC concentrations in the upper- and lower A1 zones are orders of magnitude lower than those in the first water zone.

Clean Soil, Inc. (CSI) also concludes that the recent groundwater analytical data provide support that the site is experiencing intrinsic biodegradation. Daughter VOC constituents such as 1,1-DCA, 1,1-DCE, cis-1,2-DCE, and VC were detected at dissolved concentrations up to 18,900 ug/L (in first water zone well MW-8). The low parent VOC concentration to high daughter VOC concentration ratio is a preliminary indicator of intrinsic biodegradation.

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 3**

1.0) INTRODUCTION

Clean Soil, Inc. (CSI) was contracted by Greve Financial Services ((310) 753-5770) to write the report for the First Quarter 2008 Groundwater Monitoring event at the former Angeles Chemical Company (ACC), Inc. facility located at 8915 Sorensen Avenue, Santa Fe Springs, California (See Figure 1, Site Location Map). The quarterly groundwater monitoring was requested by the Department of Toxics Substance Control (DTSC) correspondence dated September 18, 2001. This report presents the results of the 2008 4th quarter monitoring event performed on March 13 and -14 2008.

2.0) SITE DESCRIPTION

The site is approximately 1.8 acres in size and completely fenced. The site is bounded by Sorensen Avenue on the east, Air Liquide Corporation to the north and northwest, Plastall Metals Corporation to the north, and a Southern Pacific Railroad easement and McKesson Chemical Company to the south.

The ACC operated as a chemical repackaging facility from 1976 to 2000. A total of thirty-four (34) underground storage tanks (USTs) existed beneath the site. Two (2) USTs, one gasoline and one diesel, and sixteen (16) chemical USTs were excavated and removed under the oversight of the Santa Fe Springs Fire Department. All 16 remaining chemical USTs were decommissioned in place and slurry-filled.

3.0) PREVIOUS SITE ASSESSMENT WORK

In January 1990, SCS Engineers, Inc. (SCS) conducted a site investigation and drilled eight borings from 5 feet below grade surface (bgs) to 50 feet bgs. Soil samples collected and analyzed contained benzene, 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), MEK, methyl isobutyl ketone (MIBK), toluene, 1,1,1-trichloroethane (1,1,1-TCA), tetrachloroethylene (PCE), and xylenes at detectable concentrations.

In June 1990, SCS conducted an additional site investigation at the site by advancing six additional borings drilled from 20.5 feet bgs to 60 feet bgs. A monitoring well (MW-1) was also installed. Soil sample analysis revealed detectable concentrations of the above-mentioned VOCs in addition to acetone and methylene chloride. Dissolved benzene, 1,1-DCA, 1,1-DCE, PCE, trichloroethylene (TCE), and trans-1,2-dichloroethene were detected in MW-1 above maximum contaminant levels (MCLs).

Between 1993 and 1994, SCS conducted further testing at the site. Soil samples were collected from nine borings. Five borings were converted to groundwater monitoring wells MW-2, MW-3, MW-4, MW-6, and MW-7. The predominant

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 4**

compounds detected in soil and groundwater were acetone, MEK, MIBK, chlorinated VOCs, and BTEX.

In 1996 and 1999, SCS conducted separate soil vapor extraction (SVE) pilot tests using several treatment technologies on extraction well E-1 screened from 7 feet bgs and 22 feet bgs. Laboratory analysis identified maximum soil vapor gas concentrations as 1,1,1-TCA (30,300 ppmV) with detectable concentrations of 1,1-DCE, TCE, methylene chloride, toluene, PCE and xylenes. The radius of influence was measured between 35 and 80 feet.

In November 1997, SCS conducted a soil vapor survey (SVS) at the site. Soil vapor samples were collected at twenty-three locations at 5 feet bgs. In addition, soil vapor samples were collected at 15 feet bgs in five of the twelve sampling points. The SVS identified maximum VOC concentrations near the railroad tracks located on the northern portion of the site.

Blakely Environmental Investigations, Inc. (BEII) conducted an SVS at the site from November 27 to December 1, 2000. A total of 36 soil vapor sample points, labeled SV1 through SV36, were selected by BEII and approved by the DTSC for analysis. Two discrete soil vapor samples were collected from each soil vapor sample point, one at 8 feet bgs and one at 20 feet bgs. SV1 was an exception since the first soil vapor sample was collected at 10 feet bgs instead of 8 feet bgs. Based on the soil vapor sample results, BEII identified relatively low-level concentrations of VOCs in the silty clay soils at 8 feet bgs. However, the concentrations of VOCs are significantly higher in the sandy soils at 20 feet bgs. Results were submitted to the DTSC by BEII in *Report of Findings*, dated January 10, 2001 with laboratory reports (BEII's *Report of Findings* dated January 10, 2001).

BEII conducted an additional SVS on the ACC site from January 14- to January 17, 2002. The purpose of the SVS was to determine the lateral extent of VOC soil vapors in the vadose zone along the eastern, northern, and southern property line of the site. In addition, BEII performed an SVS on June 13, 2002 on the Air Liquide property to determine the lateral extent of VOC soil vapors in the vadose zone north of the ACC facility. Based on the soil vapor survey results, BEII identified relatively low-level concentrations of VOCs in the silty clay soils at 5-, 7-, 8-, 10-, and 12 feet bgs. However, the concentrations of VOCs are significantly higher in the sandy soils at 20 feet bgs, which are more permeable and conducive to soil vapor migration. Furthermore, VOC soil vapor concentrations were higher along the southern property line than along the east and north property line. Results were submitted by BEII to the DTSC in *Report of Findings*, dated October 15, 2002 with laboratory reports.

BEII drilled two soil borings (BSB-1 and BSB-2) and installed two groundwater-monitoring wells (MW-8 and MW-9) on the ACC site from June 5- to June 7, 2002. The purpose of the drilling was to help define the lateral and vertical extent of impacted soil

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 5**

along the eastern ACC property line and to help determine the extent of impacted groundwater. Soil borings BSB-1 and BSB-2 were drilled to 50- and 30 feet bgs, respectively. Monitoring wells MW-8 and MW-9 were installed to 40.5- and 45.5 feet bgs, respectively. Soil sample results identified elevated VOC concentrations from monitoring well MW-8 at depth between 29- and 40 feet bgs. Results were submitted by BEII to the DTSC in a *Report of Findings* dated October 15, 2002 with laboratory reports.

BEII drilled eight soil borings (BSB-3 through BSB-10) and eleven cone penetrometer test (CPT) locations (CPT-1 though CPT-11) in August 2002 to help determine the subsurface geology and extent of impacted soil. In November and December of 2002, BEII drilled seven additional borings (BSB-11 through BSB-17), fifteen additional CPT locations (CPT-12 through CPT-26), and installed twelve additional monitoring wells (MW-10 through MW-21) to help further define the subsurface geology and the extent of VOC-impacted soil/groundwater. Monitoring well MW-1 was also abandoned. In late June of 2003, BEII installed five additional monitoring wells (MW-22 through MW-26) to help define the extent of VOC-impacted soil and groundwater. Monitoring wells MW-2, MW-3, and MW-7 were abandoned. Laboratory results were submitted by BEII to the DTSC. A *Summary Site Characterization Report*, dated February 2004, was submitted by Shaw Environmental & Infrastructure, Inc. (Shaw) to the DTSC and included interpretations based on the above-mentioned borings, CPT locations, and monitoring wells. See **Figure 2** for Site Layout Map.

During the 4th quarter 2005, CSI began the VOC treatment of the vadose zone at the ACC site using a soil vapor extraction system (SVE). SVE monitoring program provides data to the DTSC regarding the removal of VOCs on a quarterly basis. SVE monitoring consists of such activities as collection of SVE samples, field analysis, laboratory analysis, and reporting. A carbon-based SVE system was turned on initially October 12, 2007 (Greve received its Permit-to-Construct the carbon-based system June 4, 2007). The system was shut down between December 19, 2007 and January 29, 2008 in order to exchange carbon in the canisters. The unit was turned back on this quarter (January 29, 2008). A standard operating procedure (SOP) for SVE sample collection is provided as an appendix to this report. The most current data (listed in **Tables 1** and -2 in the **Tables Section** are the data for third quarter 2007 and first quarter 2008) for the SVE operations are included. Approximately 2,664 pounds of VOCs were removed by the SVE system the past two quarters.

4.0) REGIONAL GEOLOGY/HYDROGEOLOGY

The site is located near the northern boundary of the Santa Fe Springs Plain within the Los Angeles Coastal Plain at an elevation of approximately 150 feet above mean sea level (msl). Surface sediments consist of fluvial deposits composed of interbedded gravel, sand, silt, and clay. Available data from California Water Resources Bulletin No. 104 (June 1961) indicate that the surface sediments may be Holocene and/or

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 6**

part of the upper Pleistocene Lakewood Formation, which ranges from 40- to 50 feet thick beneath the site. The Lakewood Formation has lateral lithologic changes with discontinuous permeable zones that vary in particle size. Stratified deposits of sand, silty sand, silt, and fine-grained gravel comprising the upper portion of the lower Pleistocene San Pedro Formation underlies the Lakewood Formation.

The site lies within the Central Basin Pressure area, a division of the Central Ground Water Basin, which extends over most of the Coastal Plain. The shallow (perched) groundwater occurs within the Lakewood Formation. The deeper groundwater occurs in the Hollydale aquifer, which is the uppermost regional aquifer in the Pleistocene San Pedro Formation. The major water-producing aquifers in the region are the Lynwood aquifer located approximately 200 feet bgs, the Silverado aquifer located at approximately 275 feet bgs, and the Sunnyside aquifer located at approximately 600 feet bgs.

5.0) SITE GEOLOGY/HYDROGEOLOGY

Based on the borings and CPT pushes, Shaw (2004) identified six distinct hydrostratigraphic units beneath the ACC site. Uppermost is an “overburden” unit comprised of a wide range of materials from fill to silty sands to clayey silts that is designated as “unit A”. Next is a well-defined clean sand (sometimes with gravel) unit designated as “unit B”. Following is a fine-grained predominantly silt zone designated as “unit C1” which is underlain by a coarser-grained silty sand zone named “unit D”. Next is the finest-grained unit observed, “unit C2”, which is predominantly a clayey silt that can be finer-grained (clay) at the top and coarser-grained (sandy silt) with depth. Finally, “unit E” is a clean coarse-grained sand (similar to unit B) that is considered the top of the regional aquifer system.

A perched water zone, which is currently dry, was identified within unit B. The regional aquifer zone from 50- to 80 feet bgs (referred as the A1 zone) is identified within unit E. A zone of saturation (referred as the “first water” zone) exists between the A1 and the perched water zone.

For this report, monitoring wells MW-13, -14, -15, -17, -20, and -21 will be referred to as ‘upper A1 zone monitoring wells’ and MW-23, -24, and -25 as ‘lower A1 zone monitoring wells’. Monitoring wells MW-4, -6, -8, -9, -10, -11, -12, -16, -18, -19, -22, and -26 will be noted as the ‘first water zone monitoring wells’. Monitoring wells MW-4, -6, and -22 have insufficient groundwater for sample collection.

The groundwater gradient has historically been to the southwest and northeast. On March 13- and 14, 2008 the first water elevations were measured to be at depths between 36.501 (MW-12) and 41.0 (MW-18) feet bgs (elevations of 116.5 and 112.63 feet above msl, respectively). A potentiometric groundwater contour map of the first water is included as **Figure 3**. Depth (elevation) values for MW-4, -6, and -22 are

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 7**

considered to be measurements of water trapped in their respective well caps and therefore interpreted to be anomalous. These values were not plotted or contoured. Groundwater in the upper A1 zone was measured to be at depths between 46.775 (MW-15) and 43.20 (MW-17) feet bgs (elevations of 103.83 and 105.38 feet above msl, respectively). A potentiometric groundwater contour map of the upper A1 zone water is included as **Figure 4**. Groundwater in the lower A1 zone was measured to be at depths between 46.8 (MW-25) and 41.7 (MW-23) feet bgs (elevations of 103.84 and 106.72 feet above msl, respectively). No potentiometric groundwater contour map was crafted for the lower A1 zone because there are only three data points to contour. Depths to groundwater in all zones and their respective elevations are presented in **Table 1**.

Hydrographs are included as **Figures 5 through 8** in this report. Groundwater elevations of both the first water and A1 zone tend to be higher in June and lower in December, suggesting a seasonal recharge in both hydrologic zones. This pattern appears to hold true for this monitoring period. Groundwater levels in the first water zone wells are both rising and falling. The first water wells in which groundwater fell this last quarter (MW-8, -10, -11, and -19) are located on the northwest/southeast-trending ridge of higher groundwater elevation mid-site that has been consistently monitored for the past few monitoring periods. The result is a flattening out of the plotted piezometric surface, although the “ridge” of higher groundwater persists mid-site (**Figure 3**). The groundwater beneath the A1 wells (upper and lower) is rising. The resulting piezometric surface continues to be planar, dipping to the west (see **Figure 4**). Groundwater levels dropped in all lower A1 monitoring wells (MW-23, -24, and -25) by an average of less than one foot.

6.0 GROUNDWATER MONITORING PROTOCOL

The purpose of the current groundwater monitoring program is to provide data to the DTSC regarding the piezometric surface, water quality, and the presence of free product (FP), if any, on a quarterly basis. Groundwater monitoring consists of such activities as water level measurement, well sounding for detection of FP, collection of groundwater samples, field analysis, laboratory analysis, and reporting. The fieldwork was performed as follows.

The depth to groundwater was measured in each well using a decontaminated water-level indicator capable of a measurement to within 1/100th of a foot. Prior to, and following, collection of measurements from each well, the portion of the water-level indicator entering groundwater was decontaminated using a 3-stage decontamination procedure consisting of a potable wash with water containing Liquinox soap followed by a double-purified water rinse. The depth to water was measured in all monitoring wells before any of the wells were purged. Wells were measured, where practicable, in the order of least to the most contaminated based on past analyses. Otherwise the wells were sampled in the order of availability. For the ACC wells, the following order of gauging

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 8**

and sampling was followed this quarter: MW-26, -15, -25, -22, -21, -18, -13, -12, -10, -17, -9, -23, -16, -24, -8, -11, -14, -19, -20, -4, and -6.

The well box and casing were opened carefully to preclude debris or dirt from falling into the open casing. Once the well cap was removed, the water-level indicator was lowered into the well until a consistent tone was registered. Several soundings were repeated to verify the measured depth to groundwater. The depth of groundwater was measured from a reference point marked on the lip of each well casing. A licensed surveyor has surveyed the elevation of each reference point. The depth of groundwater was recorded on the field-sampling log for each well. Other relevant information such as physical condition of the well, presence of hydrocarbon odors, etc. was also recorded as appropriate on the field-sampling log.

The well sounder used for this project was equipped to measure free product (FP) layers thicker than 0.1 inches. FP was indicated as light non-aqueous phase liquid (LNAPL) or dense non-aqueous phase liquid (DNAPL).

Groundwater samples are analyzed quarterly for:

- Volatile Organic Compounds (VOCs) by EPA Method 8260B to include all Tentatively Identified Compounds (TICs).
- Total Petroleum Hydrocarbons - gasoline (TPH-gas) by EPA Method 8015M.

6.1 Well Sampling

Clean Soil, Inc. (CSI) sampled the wells on March 13- and 14, 2008. All groundwater samples were collected using *Snap Samplers*™. A Snap Sampler™ is a groundwater-sampling device that employs a double-opening 40 ml VOA vial. Each vial is sealed at depth under water by use of a remote trigger (a wire). The trigger releases an internal, PFA Teflon-coated, stainless steel spring that seals PTFE or PFA Teflon end-caps onto the bottle. The end-caps are designed to seal the water sample within the VOA vial with no headspace vapor. Once the closed vial is retrieved from the well, the bottle is prepared with standard septa screw caps and a label. All critical actions take place submerged in the well, away from weather, surface contamination, and off-gassing loss. The vial can be used directly in standard laboratory auto sampler equipment. The sample is never exposed to the open air from the well to the gas chromatograph.

Sampling personnel wore new nitrile gloves by at each well to prevent cross-contamination of the samples. A solvent-free label was affixed to each sample vial denoting the well identification, date, and time of sampling.

Groundwater samples were collected in the following order: MW-26, -15, -25, -21, -13, -12, -10, -17, -9, -23, -16, -24, -8, -11, -14, and -20. Monitoring wells MW-4, -6,

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 9**

-22, and -26 had insufficient volumes of water for sampling. MW-18 and -19 have free product sheens in the wells and were not sampled this quarter.

A duplicate sample, collected from monitoring well MW-10, and a trip blank, supplied by the lab, were submitted to the lab for quality assurance/quality control (QA/QC) purposes.

Analytical results are included in **Table 4**.

6.2) Sample Handling

All groundwater and QA/QC samples were labeled and placed inside a cooler chilled to approximately 4°C with bagged ice prior to transport to Alpha Scientific Corporation, a laboratory certified by the California Department of Health Services (Cert. #2633). All samples were logged on the chain-of-custody forms immediately following sampling to insure proper tracking through analysis to the laboratory.

6.3) Waste Management

Free product (FP) and decontamination water are stored in sealed 55-gallon drums for a period not to exceed 90 days. Stored wastes will be profiled for hazardous constituents and characterized as Non-Hazardous, California Hazardous, or RCRA Hazardous, as appropriate. Any transportation of waste will be under appropriate manifest.

7.0) FREE PRODUCT

FP was identified as light non-aqueous phase liquid (LNAPL) in monitoring wells MW-18 and -19 (a “sheen”). Each well that contains or has contained FP is tabulated as follows with the total amount of FP removed since each well was installed.

<u>Well ID</u>	<u>Total FP Removed (liters)</u>
• MW-4	0.04
• MW-6	15.165
• MW-8	26.49
• MW-10	14.751
• MW-16	0.93
• MW-18	208.022
• MW-19	41.173
• MW-21	1.558
TOTAL	308.129

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 10**

Laboratory analysis of FP was performed in October 2001 from MW-6, in June 2002 from MW-6 and MW-8, in December 2003 from MW-16 and MW-19, in March 2004 from MW-10, MW-18 and MW-19, and in September 2004 from MW-8, MW-10, and MW-19. Laboratory analysis results are presented in **Table 2**. Based on the results, the FP contained in MW-6 and MW-8 appears to be different from the FP contained in MW-10, MW-16, and MW-19 when comparing TPH-gas concentrations. Furthermore, the VOC analysis results indicate that FP from MW-10 and MW-18 were similar as compared to the FP from MW-19.

8.0) GROUNDWATER SAMPLE RESULTS

Groundwater samples collected from the first water zone monitoring wells MW-8, -9, -10, -11, -12, and -16 in March 2008 contained dissolved total petroleum hydrocarbon as gasoline (TPH-gas) concentrations measured at -14,300; -2,100; -20,400; -25,700; -135; and -9,770 µg/L, respectively. MW-8 shows a 50% increase in TPH-g concentration and MW-16 shows significant decrease of 36% s in TPH-g concentrations this quarter. All other wells show a statistical similarity in TPH-g concentration with the previous sampling event (4th Q 2007). MW-18 and -19 (sheens) contained free product this quarter. See **Table 3** and **Figure 9** for dissolved TPH-gas concentrations. Graphs of dissolved contaminant concentrations over time are provided in **Appendix B**.

Groundwater samples collected from the upper A1 zone monitoring wells MW-13, -14, -15, -17, -20, and -21 in March 2008 contained TPH-gas in concentrations measured at -260; -789; -310; -210; -153; and -5,210 µg/L, respectively. All of these wells show a statistical similarity in TPH-g concentration with the previous sampling event (4th Q 2007). See **Table 3** and **Figure 10** for dissolved TPH-gas concentrations.

Groundwater samples collected from the lower A1 zone monitoring wells MW-23, -24, and -25 in December 2007 contained TPH-gas in concentrations measured at -414; -402; and -154 µg/L, respectively. All of these wells show a statistical similarity in TPH-g concentration with the previous sampling event (4th Q 2007). See **Table 3** for dissolved TPH-gas concentrations.

Concentrations of dissolved benzene, toluene, ethylbenzene, and (total) xylenes (BTEX) in the first water zone ranged from 10,596 µg/L in MW-26 to less than 2 µg/L in MW-12 (See **Table 4** and **Figure 9** for dissolved BTEX concentrations). All of the first water zone wells show a statistical similarity in BTEX concentration with the previous sampling event (4th Q 2007), with the exception of MW-26, which was not sampled the previous quarter. The first water zone contains mostly toluene as the total dissolved BTEX concentration. Contaminant graphs for benzene and toluene are provided in **Appendix B**.

Dissolved BTEX in the upper A1 zone ranged between 95.6 µg/L in MW-21 to <2 µg/L in MW-13, -17, and -20 (See **Tables 4 and 5** and **Figure 10** for dissolved BTEX

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 11**

concentrations). Unlike the first water zone, the upper A1 zone contains mostly benzene as the total dissolved BTEX concentration. All of the first water zone wells show a statistical similarity in BTEX concentration with the previous sampling event (4th Q 2007).

The lower A1 zone monitoring wells MW-23, -24, and -25 continue to show no detectable concentrations of dissolved BTEX.

Groundwater sample results from the first water zone showed high VOC concentrations as compared to the relatively low VOC concentrations in the A1 zone (See **Tables 4 and 5**).

Dissolved perchloroethylene (PCE) was identified in the first water zone at a maximum concentration of 1,130 µg/L in MW-26. Dissolved Trichloroethylene (TCE) was identified at a maximum of 335 µg/L in MW-26 in the first water zone (See **Figure 11**). Historically, dissolved contaminant graphs show relatively consistent dissolved PCE and TCE concentrations from first water wells except for MW-26 where concentrations fluctuate greatly. Maximum concentrations of dissolved PCE and TCE in the upper A1 zone were determined to be 154 µg/L and 191 µg/L in MW-21 (See **Figure 12**). The lower A1 zone contained maximum concentrations of dissolved PCE of 104 µg/L in MW-23 and dissolved TCE of 281 µg/L in MW-24. Wells in the upper and lower A1 zones fluctuated very slightly in dissolved PCE and TCE concentrations this quarter as compared to the previous quarter (See **Appendix B**).

Dissolved concentrations of 1,1,1-Trichloroethane (1,1,1-TCA) in the first water zone were determined to be a maximum of 2,140 µg/L in MW-26 and < 5 µg/L in all other first water zone wells, with the exception on MW-16 (57 µg/L). Dissolved 1,1,1-TCA is at a maximum of 70.4 µg/L in MW-21 and < 5 µg/L in the remainder of the upper A1 zone (See **Figure 12**). 1,1,1-TCA was not detected in the lower A1 wells this period.

Groundwater samples were also analyzed for 1,4-Dioxane, a preservative used in 1,1,1-TCA to prolong its shelf life. However, 1,4-Dioxane is more soluble in groundwater than 1,1,1-TCA and will often lead the dissolved 1,1,1-TCA plume. First water zone monitoring wells that contained concentrations of dissolved 1,4-Dioxane were MW-9 (11,300 µg/L) and MW-16 (4,990 µg/L). The remaining wells in this zone had concentrations less than the detection limit of 50 µg/L (MW-8, 10, -11, -12 and -26). Upper A1 zone monitoring wells MW-14 (1,590 µg/L) and MW-15 (181 µg/L) had concentrations of dissolved 1,4-Dioxane detected in them. The remaining wells in this zone had concentrations less than 50 µg/L (MW-13, -17, -20, and -21). Dissolved concentrations of 1,4-Dioxane were not detected in the lower A1 zone monitoring wells.

Concentrations of dissolved chlorinated VOC daughter products were relatively elevated compared to their respective parent VOCs identified above and also showed a

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 12**

trend of higher dissolved concentrations in the first water zone compared to the deeper A1 zone.

1,1-Dichloroethane (1,1-DCA) is a daughter product from reductive dehalogenation of 1,1,1-TCA and from carbon-carbon double bond reduction of 1,1-DCE, another daughter product. Dissolved 1,1-DCA concentrations were detected in almost every monitoring well sampled. Concentrations of 1,1-DCA were detected between 18900 µg/L (MW-8) and 7.5 µg/L (MW-12) in the first water zone (See **Figure 11**). MW-11 (10,600 µg/L) showed significant concentration of this compound. Dissolved 1,1-DCA concentrations in the upper A1 zone ranged between 2,640 µg/L (MW-21) and <2 µg/L in MW-13, -17, and -20 (See **Figure 12**). Dissolved 1,1-DCA was not reliably detected in the lower A1 zone wells.

Dissolved 1,1-Dichloroethylene (1,1-DCE), a daughter product of the dehydrohalogenation of 1,1,1-Trichloroethane (1,1,1-TCA) and reductive dehalogenation of TCE, was detected in the first water zone at concentrations ranging from 7,170 µg/L (MW-26) to <2 µg/L (MW-8, -10 and -12, see **Figure 11**). MW-16 (1,650 µg/L) also had a significant concentration of 1,1-DCE in the first water zone. Dissolved 1,1-DCE concentrations in the upper A1 zone ranged between 1,820 µg/L (MW-21) and 5.3 µg/L (MW-17, see **Figure 12**). Dissolved 1,1-DCE was detected in the lower A1 zone at a maximum concentration of 83 µg/L (MW-23) and a minimum concentration of 32 (MW-25). Historically, dissolved concentrations of 1,1-DCE fluctuate in all zones with no observable pattern (See **Appendix B**).

Cis-1,2-Dichloroethlene (cis-1,2-DCE) is also a daughter product of the dehydrohalogenation of 1,1,1-TCA and reductive dehalogenation of TCE. Concentrations of dissolved cis-1,2-DCE were detected in the first water zone between 17,900 µg/L (MW-26) and <5.0 µg/L (MW-8, see **Figure 11**). MW-16 (9,590 µg/L) also had a significantly high concentration of cis,1,2-DCE in the first water zone. Dissolved cis-1,2-DCE concentrations in the upper A1 zone ranged from 2,910 µg/L (MW-21) to 7.4 µg/L (MW-20, see **Figure 12**). Dissolved cis-1,2-DCE in the lower A1 zone was detected between 3.3 µg/L (MW-25) and 11.4 µg/L (MW-24). Historically, dissolved concentrations of cis-1,2-DCE fluctuate in all zones with no observable pattern (See **Appendix B**).

Vinyl chloride (VC) is a by-product from the dehydrohalogenation and reductive dehalogenation of the chlorinated VOC daughter products mentioned above. Similar to the other VOCs, concentrations of dissolved VC were at lower concentrations in the deeper A1 zone than in the first water zone. Dissolved VC concentrations were detected in the first water zone between 1,140 µg/L (in MW-11) and <2.0 µg/L (MW-26, see **Figure 11**). Dissolved VC concentrations in the upper A1 zone ranged from 739 µg/L (MW-21) to <2 µg/L (MW-13, -17 and -20, see **Figure 12**). Dissolved VC was not

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 13**

detected (<2 µg/L) in the lower A1 zone. The A1 zone wells showed fluctuations of dissolved VC concentrations with no discernable pattern over time.

Methylene chloride is a common laboratory solvent and often is reported in laboratory data. Dissolved methylene chloride was detected in only one well this quarter (MW-26) at a concentration of 6,360 µg/L.

Dissolved acetone was not reported in only one well this quarter (MW-26) at a concentration of 8,800 µg/L. Dissolved 2-Butanone (MEK) was detected in only one well this quarter (MW-26) at a concentration of 2,030 µg/L. 4-Methyl-2-pentanone (MIBK) was not reported in any wells tested this quarter above the detection limit of 5 µg/L. Historically, dissolved concentrations of acetone, MEK, and MIBK, when present, fluctuate with no observable pattern (See **Appendix B**).

All groundwater laboratory analytical reports for this quarterly groundwater-monitoring episode are included as **Appendix C**.

9.0) CONCLUSIONS

Groundwater elevations rose in every groundwater monitoring well gauged this quarter, with the exception of first water wells MW-8, -10, -11, and -19. Groundwater elevations in both A1 zones rose typically less than one foot. First water wells MW-4 and -6 were found to have no water in them and MW-22 had a trace of water trapped in its end cap (not enough to sample).

The pattern created by (mostly) rising groundwater in the first water zone (see **Figure 3** this report) has created a northwest/southeast trending ridge of high groundwater, as described in previous quarter monitoring reports, that is centered mid-site. The southwestern flank of this ridge drops off in that direction, however not so steeply as in previous quarters. The major difference between the first water groundwater contour map crafted last quarter (4th Quarter 2007) and the current map of first water elevations is the mound of groundwater that currently exists beneath MW-26, at the southern property boundary of Angeles and closest to offsite sources. This sudden surge of groundwater beneath MW-26 suggests lateral migration from an offsite source from the south for two reasons: historical groundwater elevation data do not show a mound of groundwater migrating across the site from north to south; and compounds such as acetone and MEK were detected in MW-26 at extremely high levels and nowhere else on the Angeles site (and were never used on the Angeles site). Groundwater elevations rose in all upper and lower A1 zone monitoring wells resulting (in the upper A1 zone) in a planar piezometric surface dipping to the west (see **Figure 4**).

Results of laboratory analyses show that the Site continues to be impacted by LNAPL in the first water zone monitoring wells MW-18 and -19 (a sheen and odor). Elevated dissolved-phase VOCs were identified in first water zone monitoring wells MW-8, -9, -10, -11, -12, -16, and -26. MW-22 was not sampled this quarter because

**Former Angeles Chemical Co.
2008 First Quarter
Groundwater Monitoring Report
Page 14**

there was not enough water in the casing to collect a sample.

In the upper A1 zone, dissolved-phase VOCs were identified in monitoring wells MW-13, -14, -15, -17, -20, and -21. Concentrations of dissolved-phase VOCs continue to fluctuate with groundwater elevations. Dissolved VOC concentrations in the upper A1 zone are orders of magnitude lower than those in the first water zone.

Concentrations of TPH-g, BTEX, and VOCs in all water zones show statistical similarities with the previous sampling event (4th Q 2007).

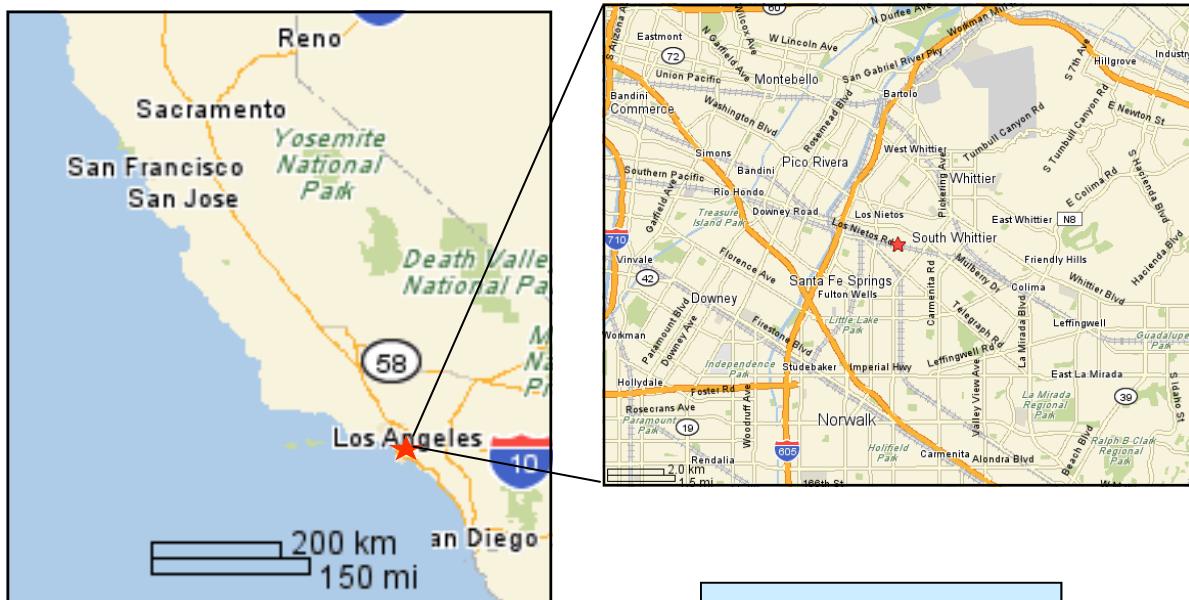
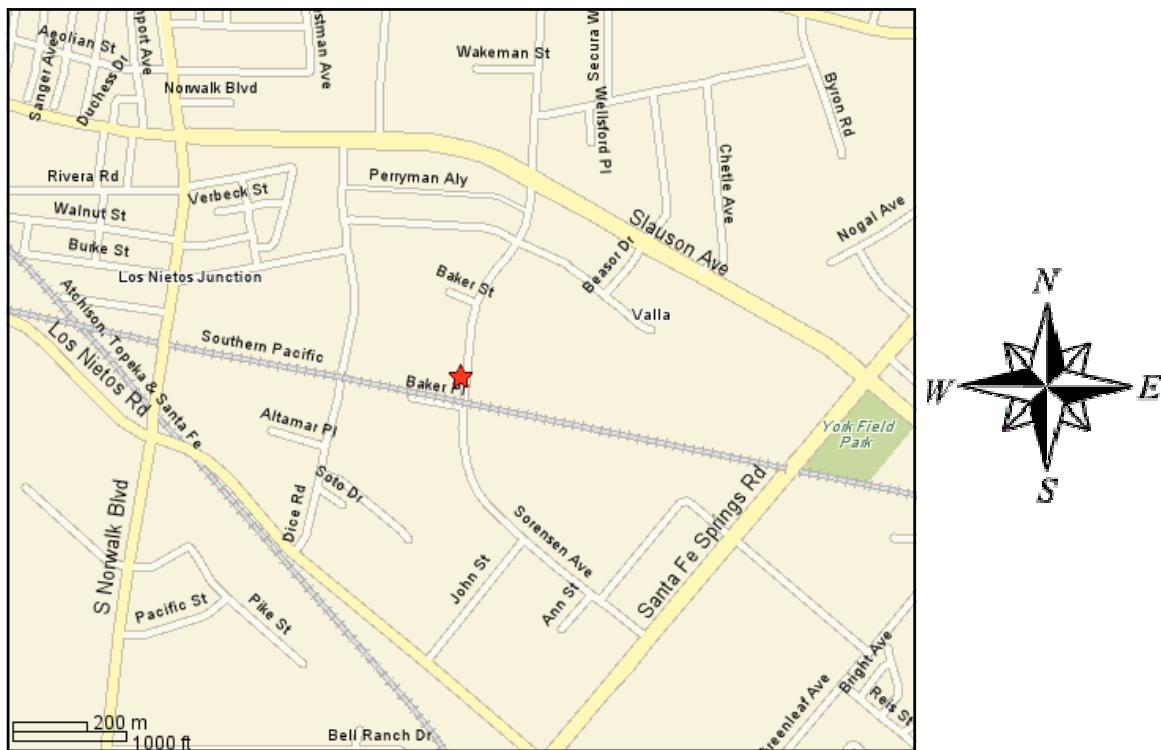
Clean Soil Inc. also concludes that the recent groundwater analytical data provide support that the site is experiencing intrinsic biodegradation. Daughter VOC constituents such as 1,1-DCA, 1,1-DCE, cis-1,2-DCE, and VC were detected at dissolved concentrations up to 10,596 ug/L (in first water zone well MW-26). The low parent VOC concentration to high daughter VOC concentration ratio is a preliminary indicator of intrinsic biodegradation.

10.0) RECOMMENDATIONS

Clean Soil Inc. recommends the following:

- Continued quarterly groundwater monitoring for VOCs and TPH-gas
- Continued free product removal on a monthly basis
- Continued SVE (carbon-based operations began in January 2008)

FIGURES



Clean Soil, Inc.
P.O. Box 1381
Lomita, CA 90717

Site Location Map
Former Angeles Chemical Company
8915 Sorensen Ave., Santa Fe Springs, CA 90670

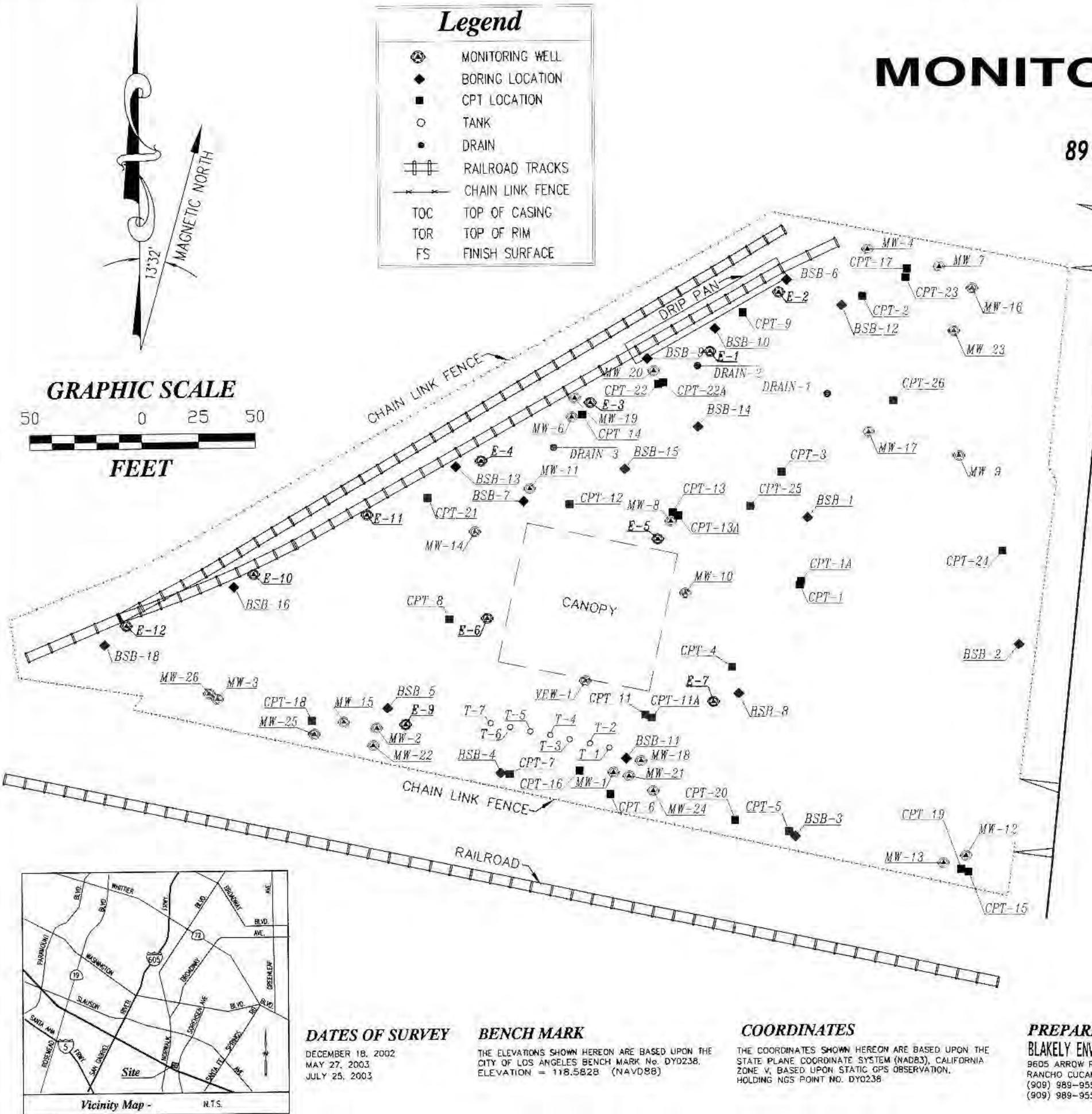
FIGURE
1

FIGURE 2

MONITORING WELL LOCATIONS

FORMER ANGELES CHEMICAL CO.

8915 SORENSEN AVENUE, SANTA FE SPRINGS, CA 90670



MONITORING WELLS						
WELL	NORTH	EAST	TOC (ELEVATION)	TOR (ELEVATION)	FS (ELEVATION)	NG (ELEVATION)
VIEW-1	1807356.04	6542521.64	149.89	150.20	150.19	
MW-1	1807314.87	6542534.25			150.43	
MW-2	1807333.80	6542429.89	150.42	150.87	150.82	
MW-3	1807346.37	6542359.32	150.79	151.20	151.12	
MW-4	1807545.62	6542465.37	148.27	148.97	148.79	
MW-6	1807471.20	6542515.25	149.39	149.57		149.58
MW-7	1807537.94	6542676.85	148.62	148.94	148.96	
MW-8	1807425.51	6542558.80	149.63	150.00	149.97	
MW-9	1807454.48	6542686.12	149.16	149.40	149.35	
MW-10	1807393.65	6542565.31	149.41	149.91		149.33
MW-11	1807439.71	6542498.73	149.12	149.87		149.41
MW-12	1807278.03	6542690.00	150.09	150.46	150.40	
MW-13	1807274.77	6542679.87	150.22	150.54	150.47	
MW-14	1807420.66	6542472.42	150.66	151.01	150.93	
MW-15	1807336.40	6542415.51	150.60	150.94	150.86	
MW-16	1807528.58	6542691.54	148.32	148.73	148.65	
MW-17	1807465.01	6542646.05	149.03	149.37	149.32	
MW-18	1807319.64	6542546.37	149.63	150.29		150.03
MW-19	1807479.88	6542516.45	149.20	149.81		149.64
MW-20	1807491.81	6542551.27	149.14	149.59	149.32	
MW-21	1807312.93	6542540.98	150.02	150.31	150.25	

NOTE:
MW-1 ABANDONED

BORING LOCATION			
BORING	NORTH	EAST	ELEVATION
BSB-1	1807427.49	6542619.40	149.39
BSB-2	1807371.72	6542713.07	149.60
BSB-3	1807286.76	6542614.74	150.47
BSB-4	1807314.44	6542484.53	150.86
BSB-5	1807342.93	6542434.75	150.59
BSB-6	1807532.47	6542609.80	149.53
BSB-7	1807434.40	6542494.13	149.48
BSB-8	1807349.73	6542588.33	149.82
BSB-9	1807497.41	6542546.37	149.72
BSB-10	1807510.81	6542578.05	149.47
BSB-11	1807321.16	6542540.03	150.11
BSB-12	1807521.18	6542634.08	148.73
BSB-13	1807449.49	6542463.97	149.56
BSB-14	1807467.59	6542570.90	149.50
BSB-15	1807448.74	6542539.69	149.64
BSB-16	1807396.27	6542366.39	150.00



SURVEYED: MAY 27, 2003

MONITORING WELLS				
WELL	NORTH	EAST	TOC (ELEVATION)	TOR (ELEVATION)
E-1	1807500.70	6542575.98	148.89	149.17
E-2	1807527.00	6542606.37	148.75	149.31
E-3	1807478.00	6542523.40	149.15	149.43
E-4	1807452.12	6542475.18	149.13	149.35
E-5	1807417.93	6542553.23	149.51	149.99
E-6	1807382.72	6542478.20	150.09	150.33
E-7	1807346.09	6542578.06	149.61	149.83
E-9	1807335.77	6542442.42	149.71	150.61
E-10	1807401.97	6542375.29	148.81	149.85
E-11	1807379.04	6542319.30	149.01	149.81
E-12	1807428.32	6542425.21	149.23	150.07

SURVEYED: JULY 25, 2003

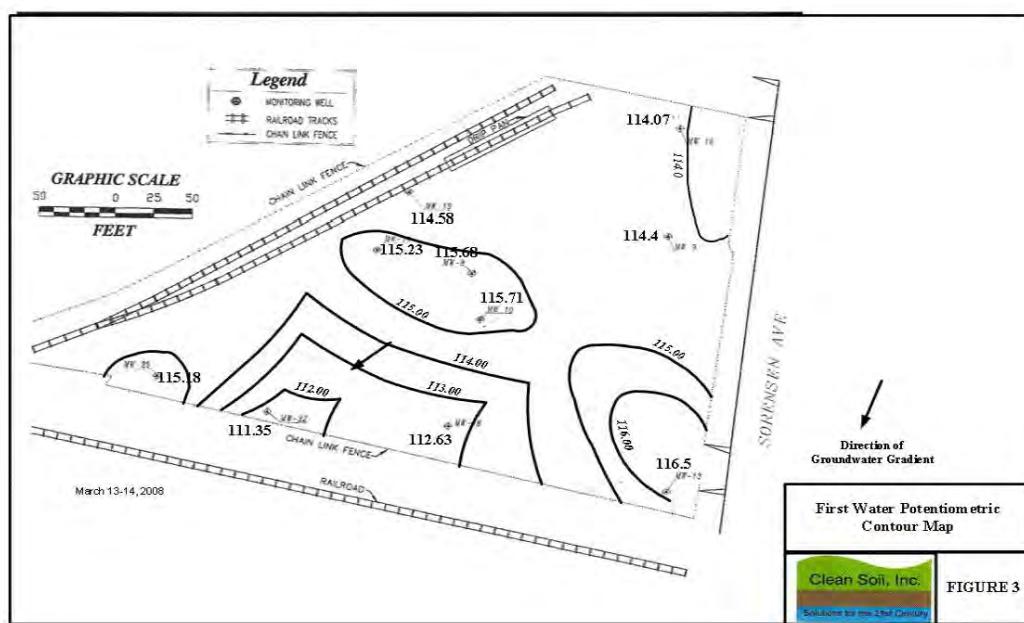
MONITORING WELLS				
WELL	NORTH	EAST	TOC (ELEVATION)	TOR (ELEVATION)
MW-22	1807326.51	6542428.35	150.67	150.89
MW-23	1807510.02	6542683.65	148.42	148.89
MW-24	1807308.78	6542551.71	149.90	150.33
MW-25	1807331.43	6542402.38	150.64	151.05
MW-26	1807349.30	6542355.86	150.83	151.04

SURVEYED: JULY 25, 2003

BORING LOCATION			
BORING	NORTH	EAST	ELEVATION
BSS-18	1807396.50	6542366.10	150.02

PREPARED FOR
BLAKELY ENVIRONMENTAL INVESTIGATIONS
9605 ARROW ROUTE, SUITE T
RANCHO CUCAMONGA, CA 91730
(909) 989-9550 Phone
(909) 989-9556 Fax

NO.	DATE	REVISIONS	BY
0	12-23-02	SUBMITTAL	DC
1	05-30-03 ADD WELLS E-1-E-7,E-9,E-11,E-12 BK		
2	07-25-03 ADD MW-22 THROUGH MW-26 & BSB-18 DC		



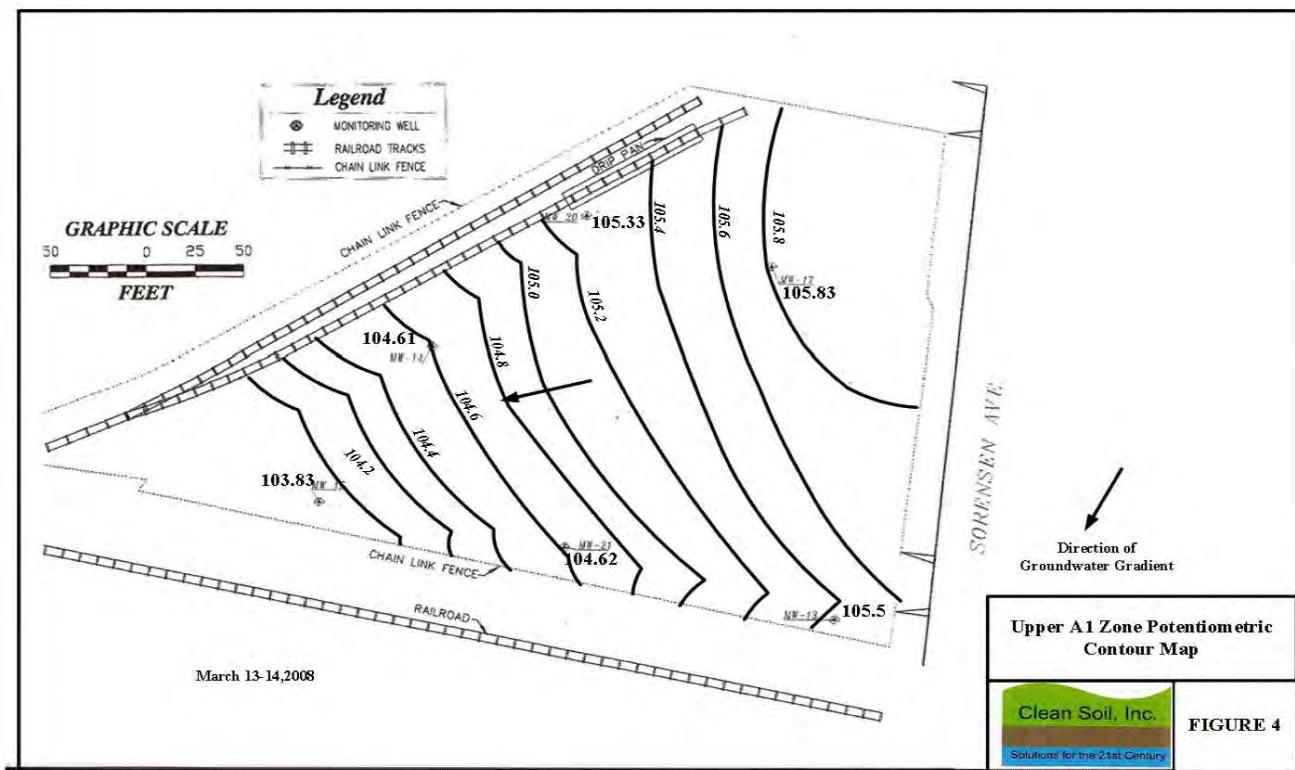


Figure 5: First Water Groundwater Elevations from Central and Northern Wells

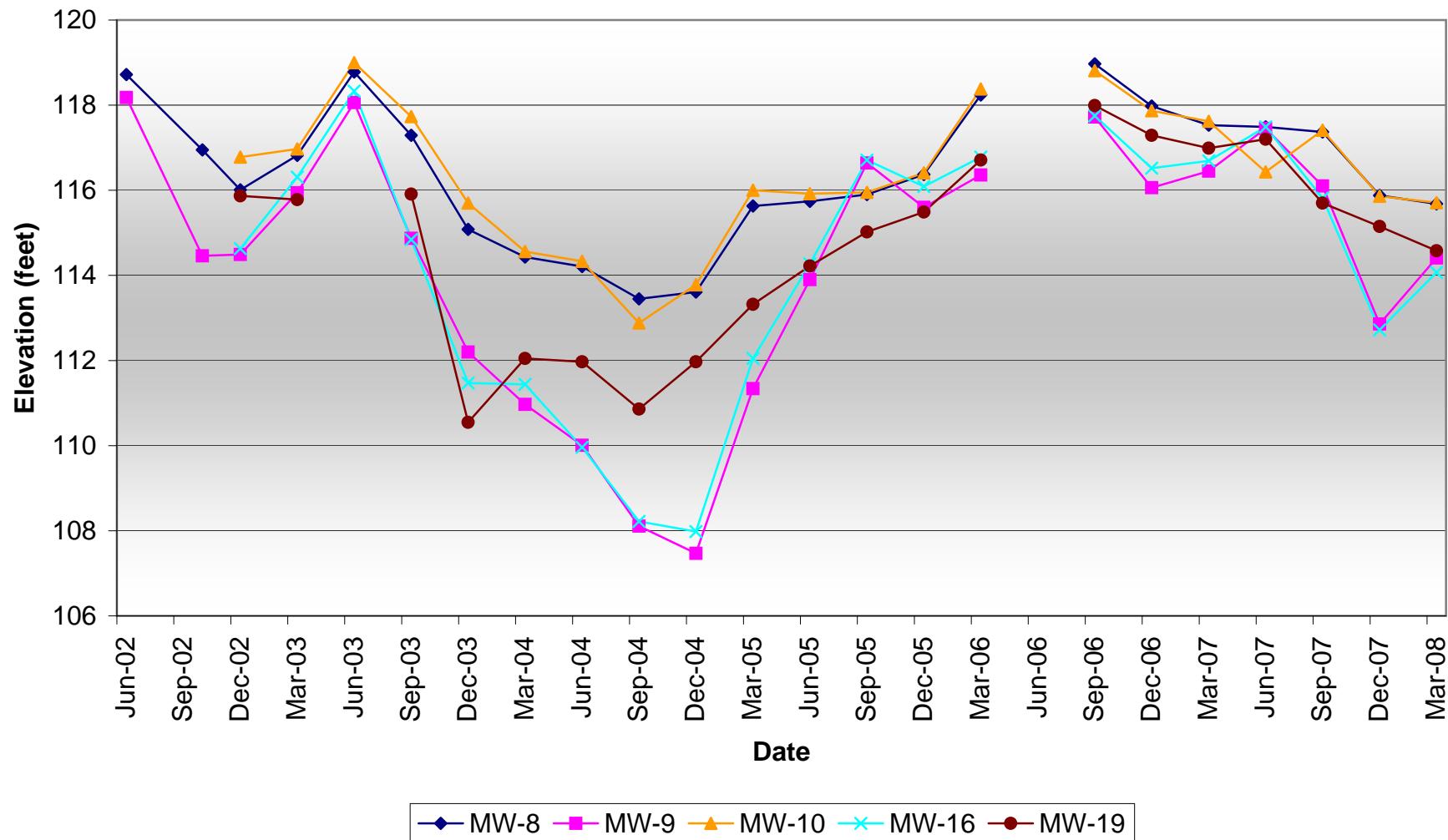


Figure 6: First Water Groundwater Elevations from Southern Wells

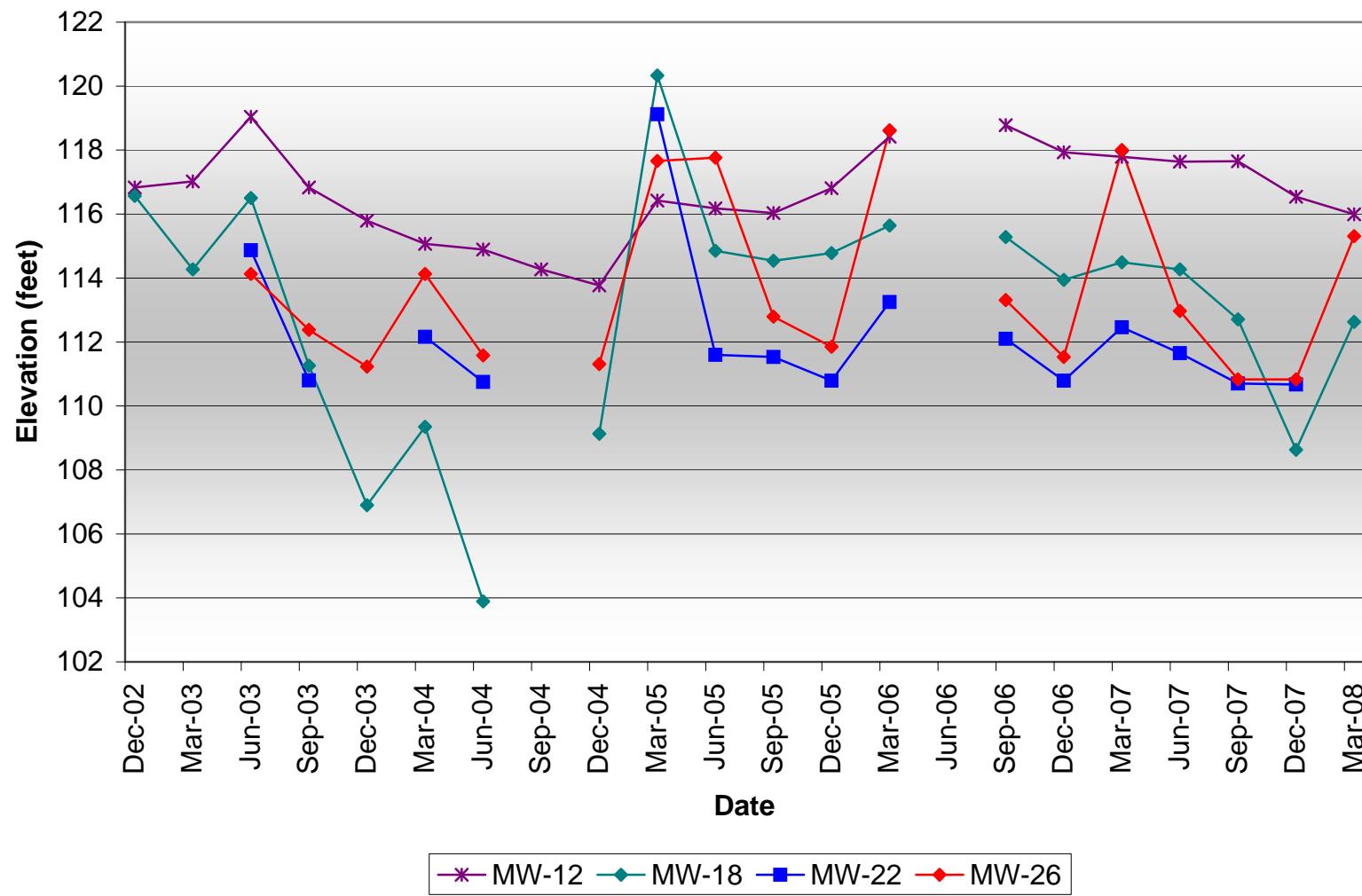


Figure 7: Upper A1 Groundwater Elevations

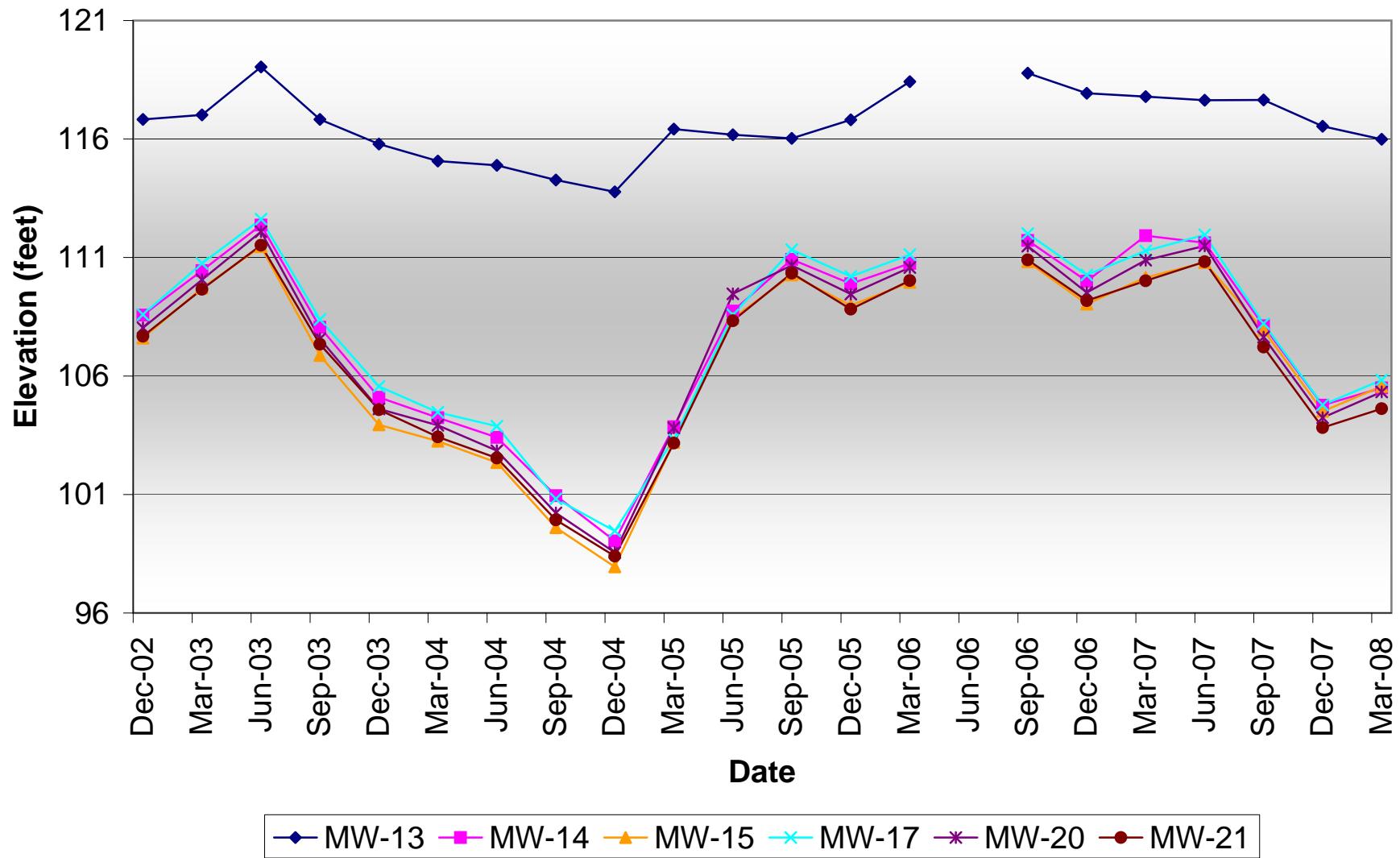
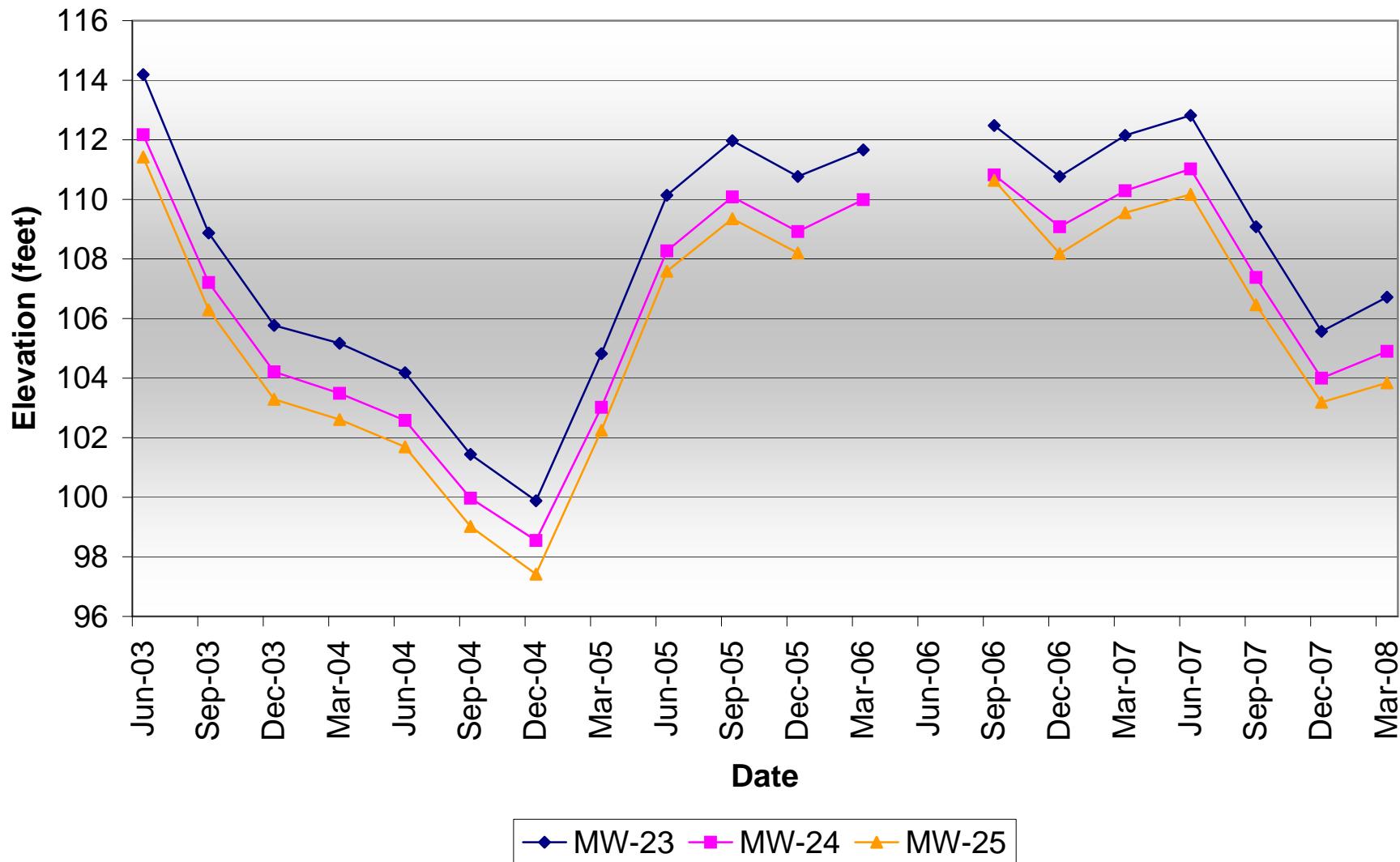
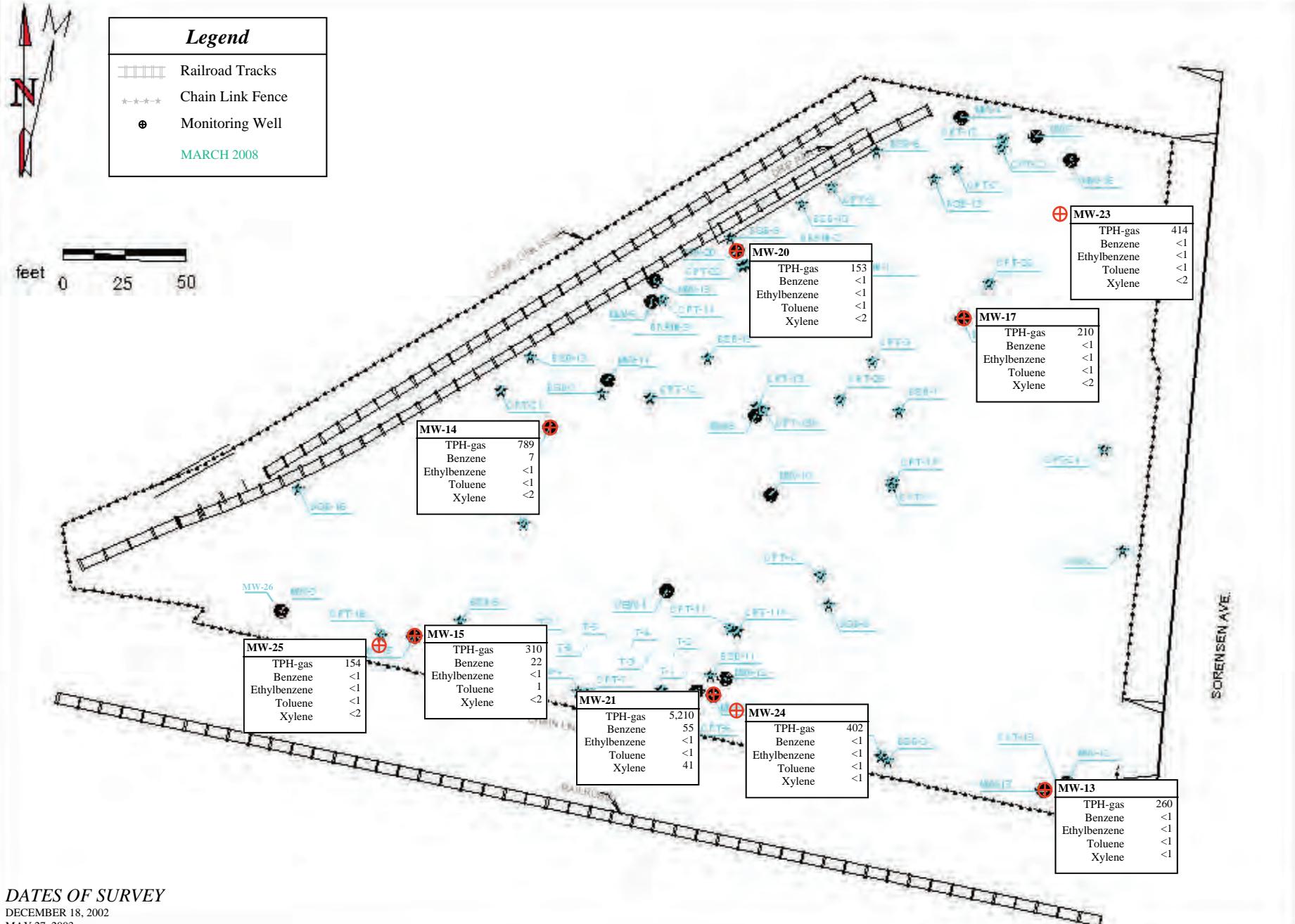


Figure 8: Lower A1 Groundwater Elevations



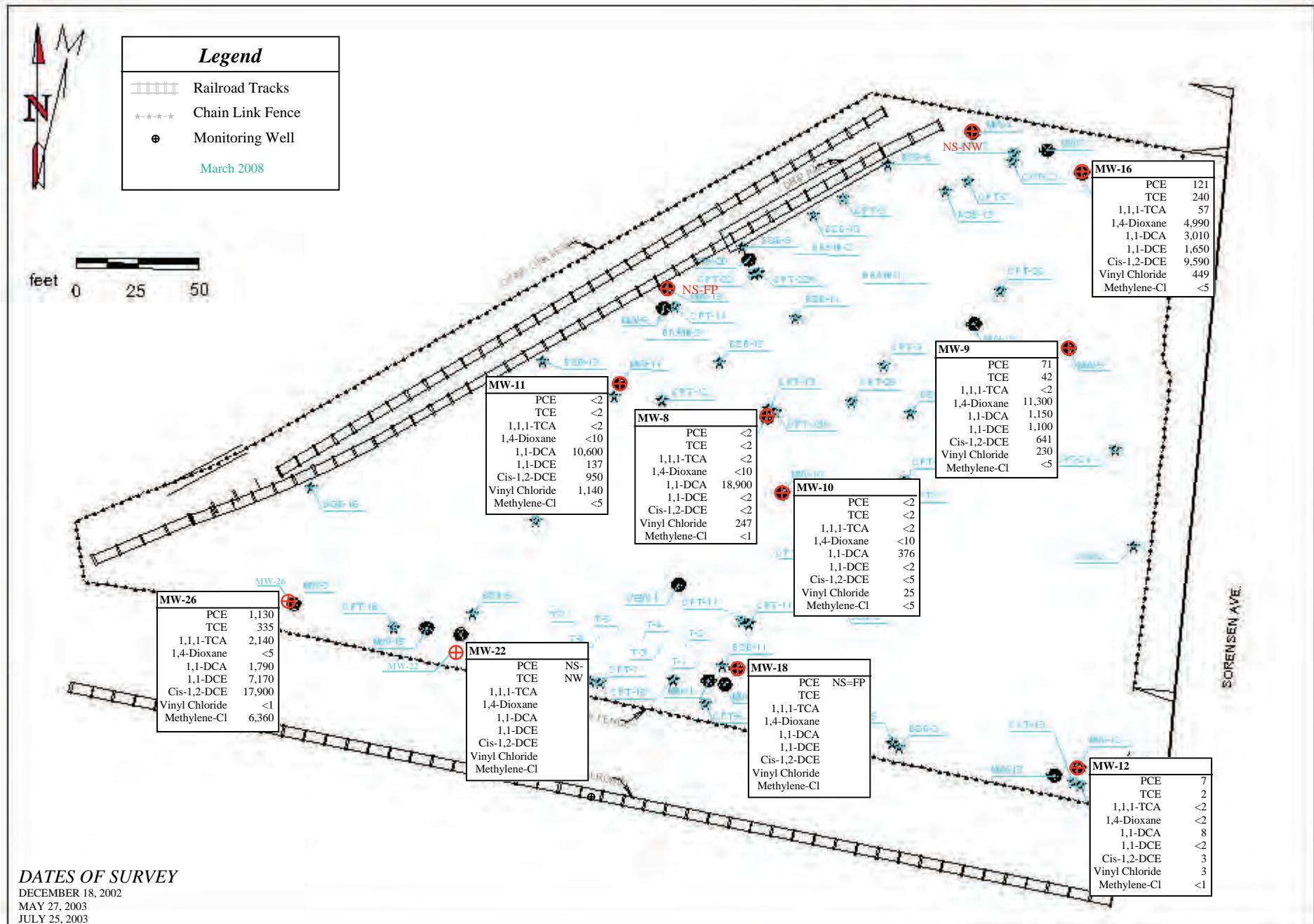


Prepared by
 Clean Soil, Inc.
 23811 Washington Avenue Suite 241
 Murrieta, CA 92562

TPH-gas and BTEX Concentrations in Upper and Lower A1 Zones ($\mu\text{g/L}$)

Former Angeles Chemical Company, 8915 Sorensen Ave., Santa Fe Springs, CA 90670

FIGURE
10



Prepared by
Clean Soil, Inc.
23811 Washington Avenue Suite 241
Murrieta, CA 92562

Chlorinated VOC's and 1,4 Dioxane Concentrations in First Water ($\mu\text{g/L}$)
Former Angeles Chemical Company, 8915 Sorensen Ave., Santa Fe Springs, CA 90670

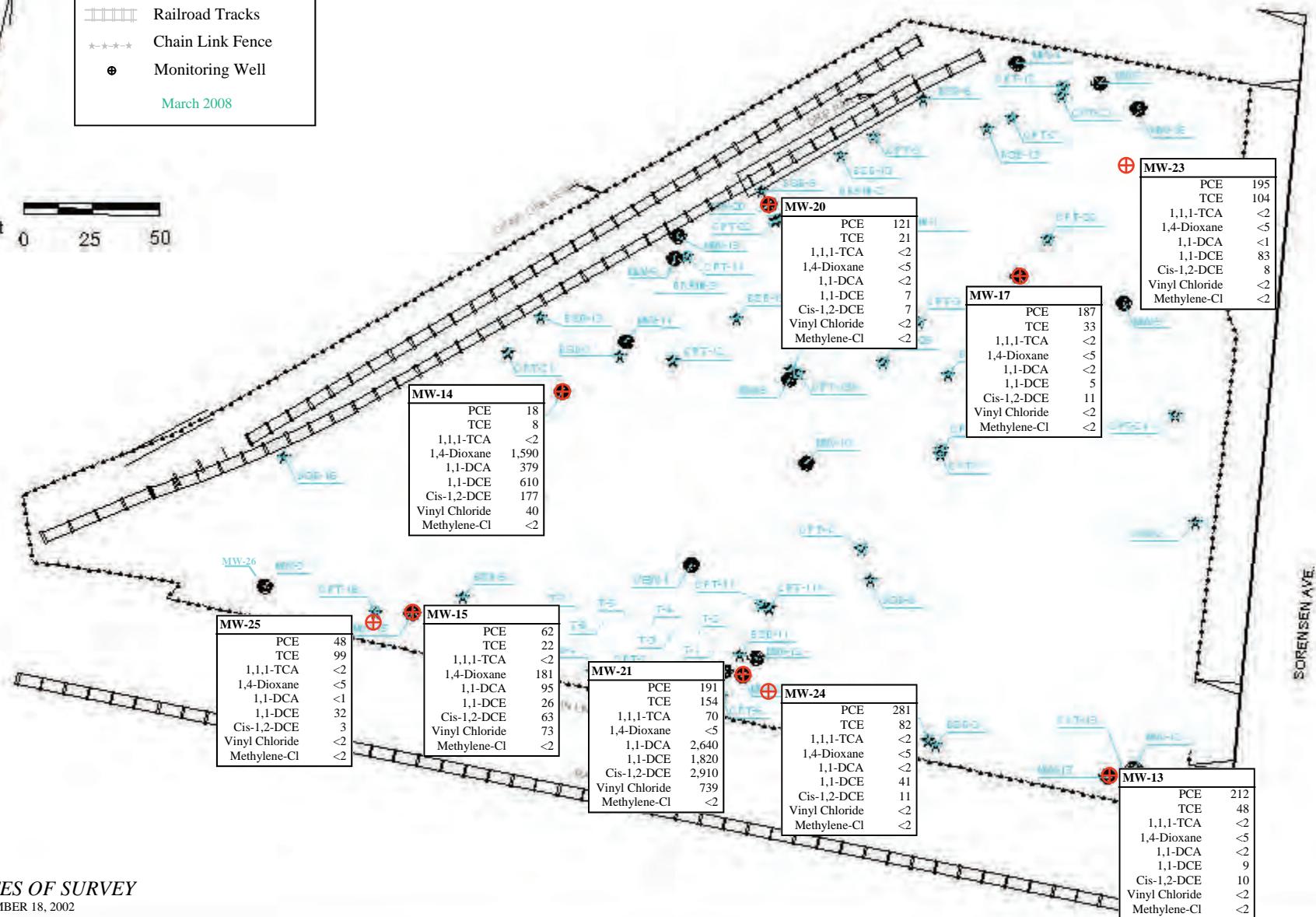
FIGURE
11



Legend	
Railroad Tracks	
Chain Link Fence	*-*-*-*
Monitoring Well	⊕

March 2008

feet
0 25 50



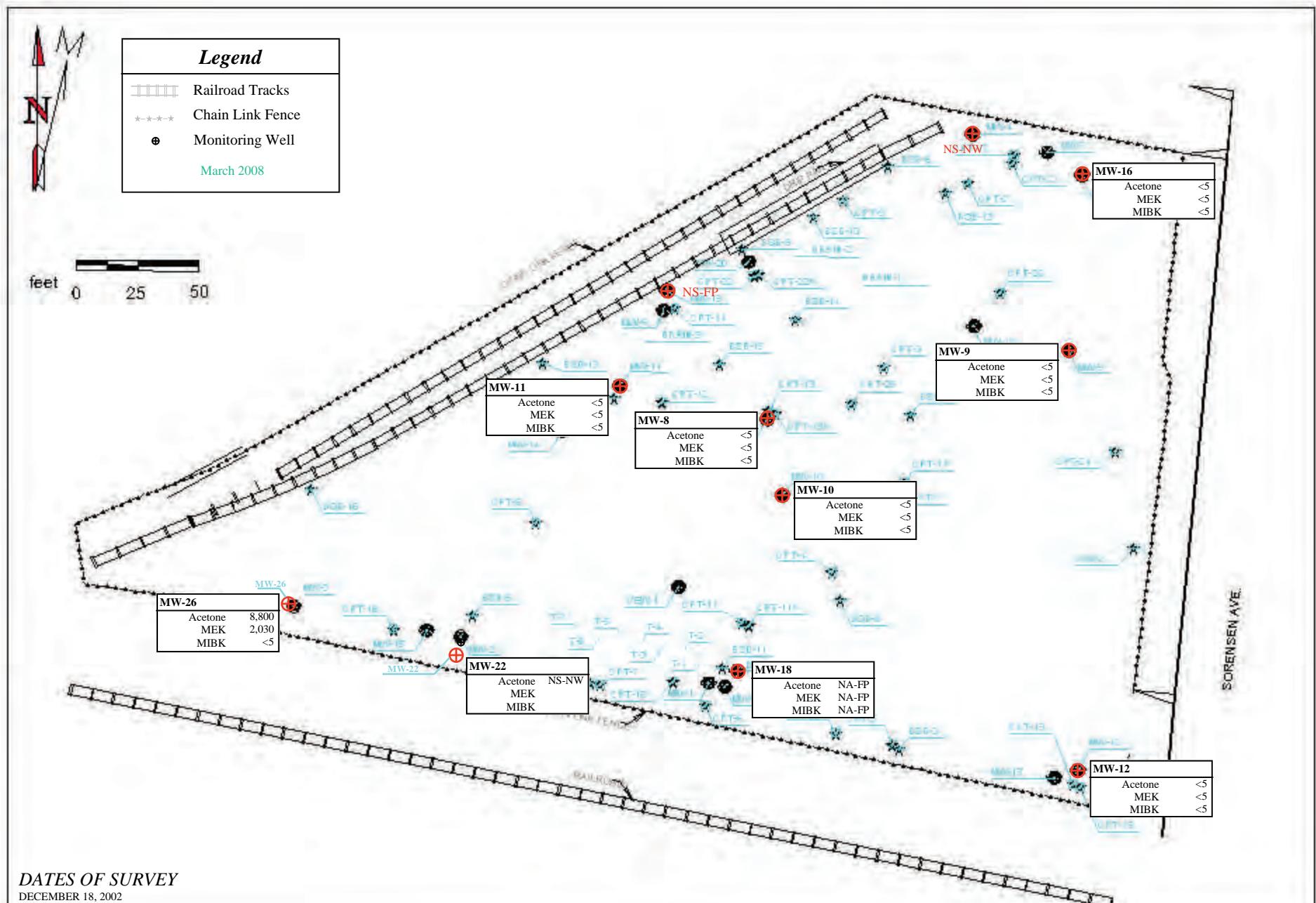
DATES OF SURVEY
DECEMBER 18, 2002
MAY 27, 2003
JULY 25, 2003

Prepared by
Clean Soil, Inc.
23811 Washington Avenue Suite 241
Murrieta, CA 92562

Chlorinated VOC's and 1,4 Dioxane Concentrations in Upper and Lower A1 Zones ($\mu\text{g/L}$)

Former Angeles Chemical Company, 8915 Sorenson Ave., Santa Fe Springs, CA 90670

FIGURE
12



DATES OF SURVEY

DECEMBER 18, 2002

MAY 27, 2003

JULY 25, 2003

[View Details](#)

Prepared by

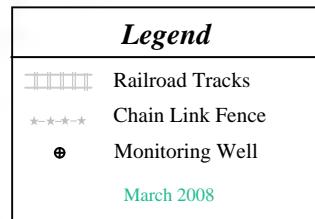
Clean Soil, Inc.

23811 Washington Avenue Suite 241
Murrieta, CA 92562

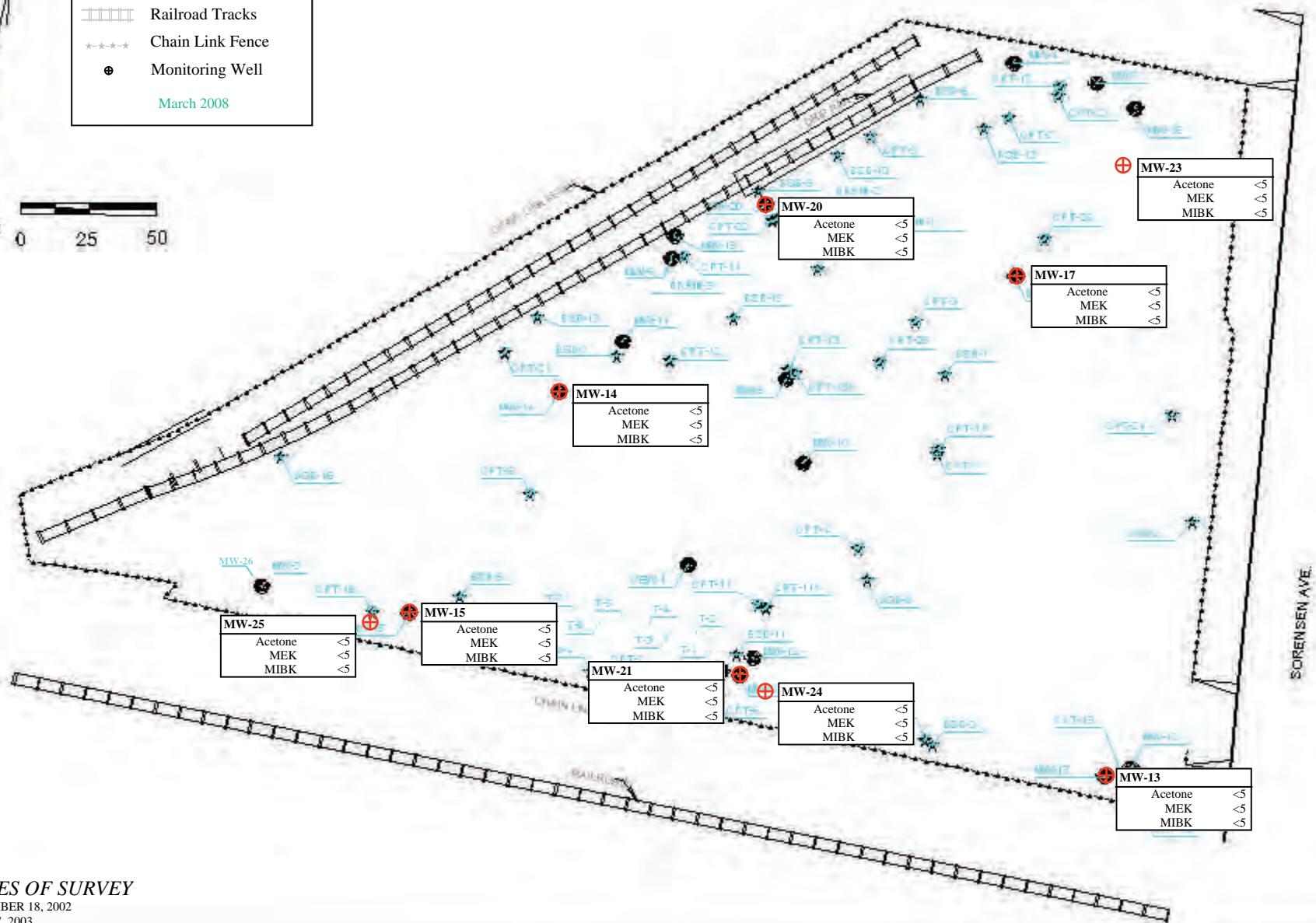
Acetone, MEK and MIBK Concentrations in First Water ($\mu\text{g/L}$)

Former Angeles Chemical Company, 8915 Sorensen Ave., Santa Fe Springs, CA 90670

FIGURE 13



feet
0 25 50



DATES OF SURVEY

DECEMBER 18, 2002
MAY 27, 2003
JULY 25, 2003

Prepared by
Clean Soil, Inc.
23811 Washington Avenue Suite 241
Murrieta, CA 92562

Acetone, MEK and MIBK Concentrations in Upper and Lower A1 Zones ($\mu\text{g/L}$)

Former Angeles Chemical Company, 8915 Sorensen Ave., Santa Fe Springs, CA 90670

FIGURE
14

TABLES

Table 1: Well and Screen Elevations and Groundwater Depths to Water and Elevations (in feet)

	Date	*MW-1	*MW-2	*MW-3	MW-4	MW-6	*MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26		
Well Elevation (TOC)	NA	150.42	150.79	148.27	149.39	148.62	149.63	149.16	149.41	149.12	150.09	150.22	150.66	150.6	148.32	149.03	149.63	149.2	149.14	150.02	150.67	148.42	149.9	150.64	150.83			
Screened Interval (bg)	40 - 60	30 - 50	29 - 49	17 - 27	20 - 30	34 - 55	30.5-40.5	30.5-45.5	25 - 40	30 - 40	30 - 40	52 - 62	55 - 65	54 - 64	29 - 46	56 - 66	21 - 46	30 - 45	57 - 67	53 - 63	30 - 40	71 - 81	67 - 77	71 - 81	30 - 40			
Screen Elevation	Top	NA	120.42	121.79	131.27	119.39	114.62	119.13	118.66	124.41	119.12	120.09	98.22	95.66	96.6	119.32	93.03	128.63	119.2	92.14	97.02	120.67	77.42	82.9	79.64	120.83		
	Bottom	NA	100.42	101.79	121.27	109.39	93.62	109.13	103.66	109.41	109.12	110.09	88.22	85.66	86.6	102.32	83.03	103.63	104.2	82.14	87.02	110.67	67.42	72.9	69.64	110.83		
Depth to Water (bg)	Feb-94	30.05'	28.8	29.7	23.35	24.85	24.53																					
	Nov-00	35.62'	35.25	36.42	26.2	28.52	28.19																					
	Oct-01	37.41'	37.91	39.19	26.35	NA	28.7																					
	Nov-01	NA	NA	NA	26.36	28.85	NA																					
	Feb-02	36.2'	36.39	37.39	26.44	30.32	29.21																					
	Jun-02	37.92'	38.75	39.19	26.46	NA	30.07	30.91	30.98																			
	Oct-02	42.45'	43.66	44.66	26.48	30.28	34.11	32.68	34.7																			
	Dec-02	NA	43.19	44.22	26.28	FP only	34.03	33.62	34.67	32.63	32.71	33.26	41.65	43.06	43.63	33.69	40.44	33.06	33.33	41.11	42.34							
	Mar-03	NA	41.07	41.35	26.36	FP only	33.18	32.81	33.22	32.44	32.49	33.07	39.77	40.95	41.53	32.01	38.28	35.36	33.42	39.08	40.36							
	Jun-03	NA	39.98	39.95	26.35	FP only	30.44	30.85	31.1	30.41	30.15	31.05	37.85	39.2	39.62	29.99	36.41	33.13	38.3	37.05	38.5	35.8	34.23	37.73	39.22	36.7		
	Sep-03	NA	NA	NA	26.41	FP only	NA	32.34	34.29	31.68	31.84	33.26	42.16	43.79	44.19	33.48	40.65	38.37	33.29	41.57	42.68	39.87	39.55	42.69	44.35	38.45		
	Dec-03	NA	NA	NA	26.39	FP only	NA	34.55	36.96	33.71	33.73	34.3	45.12	46.72	46.84	36.85	43.47	42.73	38.65	44.53	45.44	Dry	42.65	45.69	47.35	39.6		
	Mar-04	NA	NA	NA	26.41	FP only	NA	35.2	38.19	34.85	34.36	35.02	45.98	47.41	47.92	36.88	44.56	40.28	37.15	45.22	46.59	38.51	43.25	46.41	48.03	36.7		
	Jun-04	NA	NA	NA	26.4	FP only	NA	35.42	39.15	35.08	35.38	35.2	46.81	48.49	38.36	45.15	45.74	37.23	46.29	47.48	39.92	44.24	47.32	48.95	39.25			
	Sep-04	NA	NA	NA	26.42	FP only	NA	36.18	41.05	36.53	35.92	35.82	49.27	51.06	51.32	40.1	48.21	FP only	38.34	48.92	50.09	Dry	46.98	49.93	51.62	NA		
	Dec-04	NA	NA	NA	26.47	29.8	NA	36.02	41.69	35.63	36.26	36.32	51.18	52.71	53.18	40.34	49.57	40.5	37.23	50.59	51.62	Dry	48.54	51.35	53.22	39.52		
	Mar-05	NA	NA	NA	26.43	29.9	NA	34	37.82	33.41	34.66	33.67	46.36	46.5	47.98	36.27	45.68	29.3	35.88	45.33	46.85	31.55	43.6	46.88	48.39	33.17		
	Jun-05	NA	NA	NA	Dry	29.9	NA	33.89	35.26	33.49	34.12	33.91	41.48	41.27	42.75	34.05	40.45	34.78	34.98	39.67	41.69	39.07	38.28	41.63	43.05	33.07		
	Sep-05	NA	NA	NA	Dry	29.91	NA	33.73	32.52	33.46	33.75	34.06	39.3	39.43	41.01	31.61	37.7	35.09	34.18	38.47	39.68	39.14	36.45	39.82	41.29	38.04		
	Dec-05	NA	NA	NA	26.59	29.90	NA	33.26	33.56	33.00	32.71	33.28	40.33	40.72	42.14	32.23	38.83	34.85	33.71	39.68	41.20	39.88	37.65	40.98	42.44	38.98		
	Mar-06	NA	NA	NA	26.5	29.89	NA	31.39	32.8	31.03	31.55	31.67	39.47	39.76	41.13	31.54	37.91	33.99	32.49	38.56	39.99	37.45	36.76	39.91	NA	32.21		
	Jun-06																											
	Sep-06	NA	NA	NA	26.51	29.99	NA	30.66	31.44	30.6	29.73	31.31	38.5	38.89	40.32	30.57	37.02	34.35	31.21	37.66	39.12	38.6	35.94	39.08	40	37.52		
	Dec-06	NA	NA	NA	26.48	29.87	NA	31.65	33.1	31.54	31.15	32.16	40.22	40.67	42.15	31.8	38.77	35.69	31.91	39.62	40.84	39.91	37.65	40.82	42.46	39.3		
	Mar-07	NA	NA	NA	26.6	29.88	NA	32.1	32.71	31.79	31.67	32.3	38.3	39.55	41.1	31.63	37.75	35.14	32.21	38.25	40	38.24	36.27	39.61	41.09	32.83		
	Jun-07	NA	NA	NA	Dry	29.85	NA	32.14	31.71	32.98	31.58	32.45	38.6	38.92	40.05	30.83	37.07	35.36	32	37.65	39.2	39.05	35.6	38.88	40.47	37.86		
	Sep-07	NA	NA	NA	Dry	Dry	NA	32.26	33.06	32	31.98	32.44	42.1	42.72	44.1	32.5	40.82	36.92	33.5	41.5	42.8	39.97	39.34	42.52	44.18			

Table 2: TPH-gas and VOCs from Free Product Sample Results using EPA Methods 8015 and 8260 (µg)

	Date	MW-6	MW-8	MW-10	MW-16	MW-18	MW-19
Screened Interval (feet bg)		20-30	30.5-40.5	25-40	29-46	21-46	30-45
TPH-gas	Jun-02	812,000,000	801,000,000	NA	NA	NA	NA
	Dec-03	NA	NA	NA	455,000,000	NA	425,000,000
	Mar-04	NA	NA	446,000	NA	NA	NA
	Dec-07						
VOCs							
Acetone	Oct-01	<25,000*					
	Mar-04	NA	NA	<1,250,000	NA	<1,250,000	<1,250,000
	Sep-04	NA	<2,500,000	<2,500,000	NA	NA	<2,500,000
	Dec-07				897,000		
Benzene	Oct-01	110,000*					
	Mar-04	NA	NA	<250,000	NA	<250,000	365,000
	Sep-04	NA	<100,000	<100,000	NA	NA	464,000
	Dec-07						
2-Butanone (MEK)	Oct-01	<25,000*					
	Mar-04	NA	NA	<1,250,000	NA	<1,250,000	<1,250,000
	Sep-04	NA	<2,500,000	<2,500,000	NA	NA	<2,500,000
	Dec-07						
Chloroethane	Mar-04	NA	NA	<500,000	NA	<500,000	<500,000
	Sep-04	NA	<200,000	<200,000	NA	NA	<200,000
	Dec-07						
1,1-Dichloroethane	Oct-01	592,000*					
	Mar-04	NA	NA	3,190,000	NA	1,590,000	625,000
	Sep-04	NA	4,040,000	5,740,000	NA	NA	1,326,000
	Dec-07						
1,2-Dichloroethane	Oct-01	<5,000*					
	Mar-04	NA	NA	<500,000	NA	<500,000	<500,000
	Sep-04	NA	<200,000	<200,000	NA	NA	<200,000
	Dec-07						
1,1-Dichloroethene	Oct-01	417,000*					
	Mar-04	NA	NA	730,000	NA	928,000	4,840,000
	Sep-04	NA	782,000	710,000	NA	NA	5,860,000
	Dec-07						
cis 1,2-Dichloroethene	Oct-01	1,060,000*					
	Mar-04	NA	NA	1,530,000	NA	1,620,000	1,630,000
	Sep-04	NA	1,765,000	1,900,000	NA	NA	2,793,000
	Dec-07						
trans 1,2-Dichloroethene	Oct-01	<5,000*					
	Mar-04	NA	NA	<500,000	NA	<500,000	<500,000
	Sep-04	NA	<200,000	<200,000	NA	NA	<200,000
	Dec-07						
1,4 Dioxane	Mar-04	NA	NA	<12,500,000	NA	<12,500,000	<12,500,000
	Sep-04	NA	<5,000,000	<5,000,000	NA	NA	<5,000,000
	Dec-07						
Ethylbenzene	Oct-01	4,320,000*					
	Mar-04	NA	NA	5,330,000	NS-FP	7,080,000	6,960,000
	Sep-04	NA	5,910,000	7,280,000	NA	NA	8,770,000
	Dec-07				13,400,000		

Table 2: TPH-gas and VOCs from Free Prodcut Sample Results using EPA Methods 8015 and 8260 ($\mu\text{g}/\text{m}^3$)

VOCs	Date	MW-6	MW-8	MW-10	MW-16	MW-18	MW-19
Methylene Chloride	Oct-01	<5,000*					
	Mar-04	NA	NA	<500,000	NA	<500,000	<500,000
	Sep-04	NA	<200,000	<200,000	NA	NA	<200,000
	Dec-07						
4-Methyl-2-pentanone	Oct-01	<25,000*					
	Mar-04	NA	NA	<1,250,000	NA	<1,250,000	<1,250,000
	Sep-04	NA	<2,500,000	<2,500,000	NA	NA	<2,500,000
	Dec-07						
Naphthalene	Oct-01	1,680,000*					
	Mar-04	NA	NA	1,980,000	NA	1,620,000	4,120,000
	Sep-04	NA	3,260,000	2,890,000	NA	NA	6,000,000
	Dec-07					2,570,000	
n-Propylbenzene	Mar-04	NS-FP	NS-FP	2,820,000	NA	3,230,000	2,980,000
	Sep-04	NA	3,787,000	3,700,000	NA	NA	4,240,000
	Dec-07					5,700,000	
Tetrachloroethene	Oct-01	531,000*					
	Mar-04	NA	NA	<500,000	NA	543,000	4,820,000
	Sep-04	NA	<200,000	<200,000	NA	NA	2,870,000
	Dec-07						
1,1,1-Trichloroethane	Oct-01	28,100,000*					
	Mar-04	NA	NA	8,870,000	NA	4,140,000	35,000,000
	Sep-04	NA	5,460,000	7,330,000	NA	NA	45,700,000
	Dec-07						
Trichloroethene	Oct-01	753,000*					
	Mar-04	NA	NA	<500,000	NA	<500,000	560,000
	Sep-04	NA	<200,000	<200,000	NA	NA	300,000
	Dec-07						
1,2,4-Trimethylbenzene	Oct-01	22,100,000*					
	Mar-04	NA	NA	31,900,000	NA	30,600,000	45,400,000
	Sep-04	NA	43,400,000	37,000,000	NA	NA	60,100,000
	Dec-07					44,800,000	
1,3,5-Trimethylbenzene	Oct-01	5,400,000*					
	Mar-04	NA	NA	8,560,000	NA	9,020,000	9,480,000
	Sep-04	NA	11,746,000	10,100,000	NA	NA	13,500,000
	Dec-07					12,600,000	
Toluene	Oct-01	9,010,000*					
	Mar-04	NA	NA	8,620,000	NA	15,300,000	11,400,000
	Sep-04	NA	9,010,000	15,200,000	NA	NA	16,400,000
	Dec-07					22,500,000	
Vinyl Chloride	Oct-01	<5,000*					
	Mar-04	NA	NA	<500,000	NA	<500,000	<500,000
	Sep-04	NA	<100,000	<100,000	NA	NA	<100,000
	Dec-07						
Xylenes	Oct-01	10,370,000*					
	Mar-04	NA	NA	17,600,000	NA	22,500,000	16,000,000
	Sep-04	NA	21,400,000	26,300,000	NA	NA	22,100,000
	Dec-07					65,300,000	

NA= Not Analyzed.

Blue= Chemicals stored on-site.

Red= Transformation compounds.

Table 3: Conductivity, pH, and TPH-gas Groundwater Sample Results using EPA Method 8015 (µg/L)

Date	*MW-1	*MW-2	*MW-3	MW-4	MW-6	*MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26		
Screened Interval (bg)	40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65	54-64	29-46	56-66	21-46	30-45	57-67	53-63	30-40	71-81	67-77	71-81	30-40		
Conductivity	Dec-02	NA	2011	2065	NA	NA	2710	NA	2331	2871	2686	1572	1374	1866	1821	2106	1885	2515	5977	1907	1746						
	Mar-03	NA	2094	1974	NA	NA	2768	NA	2325	4382	3793	1492	1802	1913	1816	2011	1892	2643	5912	1823	1695						
	Jun-03	NA	1763	1981	NA	NA	2882	NA	2406	4439	3245	1192	1832	1871	1851	1931	1913	2602	6017	1788	1790	2500	1200	1300	1300	3000	
	Sep-03	NA	NA	NA	NA	NA	NA	NA	2540	3978	3560	1313	1904	2100	1948	2219	2530	3028	NS-FP	1986	1910	NS-NW	2265	1799	1883	NS-NW	
	Dec-03	NA	NA	NA	NA	NA	NA	NA	2585	2850	3070	1387	1953	1984	1927	NS-FP	1981	2674	NS-FP	2192	1868	NS-NW	NA	NA	NA	NS-NW	
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	2653	NS-FP	2582	1313	2060	1999	2073	NS-FP	1954	NS-FP	NS-FP	2166	2080	1663	NA	NA	NA	2302	
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	2474	NS-FP	2502	1270	1812	1764	1826	NS-FP	1897	NS-FP	NS-FP	1779	1807	NA	1117	1507	1807	2032	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	2558	NS-FP	2374	1171	2014	1819	2032	NS-FP	1781	NS-FP	NS-FP	1997	1906	NA	NA	NA	NA	NS	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	2075	NS-FP	1595	1016	1750	1509	1725	NS-FP	1663	NS-FP	NS-FP	1843	NS-FP	NS-NW	NA	NA	NA	NS-NW	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	NA	3398	4211	NS-FP	3857	1915	1744	2122	2981	1906	2170	NS-FP	NS-FP	1796	NS-FP	2528	NA	NA	NA	3679
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	NA	1575	2476	1595	2369	1226	1700	1985	1812	2118	1961	NS-FP	NS-FP	1888	1747	1505	NA	NA	NA	2280
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	NA	1579	2501	1457	1566	1168	1726	1840	1969	1977	1815	NS-FP	NS-FP	1862	1785	1426	NA	NA	NA	2192
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	NA	1966	2921	1670	1872	1175	1985	2223	2168	2362	2494	NS-FP	NS-FP	2298	NS-FP	NS-NW	NA	NA	NA	1996
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	NA	2040	2561	1433	2226	1222	2012	2207	2044	2179	2271	NS-FP	NS-FP	2176	NS-FP	1921	NA	NA	NA	2419
	Jun-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	NA	5372	2272	1636	1570	1029	1697	1876	1912	1751	1477	962	NS-FP	1825	1924	1336	NA	NA	NA	1995
	Dec-06	NA	NA	NA	NS-FP	NS-FP	NA	NA	5581	2309	1682	1865	1005	1729	2006	2131	1904	2162	NS-FP	NS-FP	1952	1991	NS-NW	NA	NA	NA	NS-NW
pH	Dec-02	NA	6.83	6.82	NA	NA	6.75	NA	6.58	6.82	6.87	7.02	6.97	6.83	6.93	6.56	6.93	6.68	7.02	6.99	6.99						
	Mar-03	NA	6.6	6.9	NA	NA	6.7	NA	7	6.7	6.6	7.1	7.5	7	7.8	6.8	7.2	6.6	6.9	7.3	7.6						
	Jun-03	NA	6.9	6.7	NA	NA	6.6	NA	6.7	6.4	6.6	6.4	6.8	6.8	6.7	6.5	6.8	6.3	6.7	6.9	6.8	NA	NA	NA	NA	NA	
	Sep-03	NA	NA	NA	NA	NA	NA	NA	6.61	6.55	6.52	6.49	6.93	6.9	6.75	6.7	6.85	6.23	NS-FP	6.79	6.77	NS-NW	6.64	6.74	6.67	NS-NW	
	Dec-03	NA	NA	NA	NA	NA	NA	NA	6.9	6.6	6.7	7.4	6.9	7.1	7	NS-FP	7.1	6.4	NS-FP	7	6.8	NS-NW	NA	NA	NA	NS-NW	
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	6.7	NA	7	7	6.8	6.8	6.7	NS-FP	6.7	NS-FP	NS-FP	6.7	6.8	6.4	NA	NA	NA	7	
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	6.7	NS-FP	6.6	6.9	6.9	6.7	6.7	NS-FP	6.9	NS-FP	NS-FP	6.8	6.7	NA	6.1	4.3	4.6	5.8	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	6.67	NS-FP	6.65	7	6.79	6.74	6.8	NS-FP	6.79	NS-FP	NS-FP	6.26	6.74	NA	NA	NA	NA	NS	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	6.9	NS-FP	6.6	6.9	6.6	6.8	6.6	NS-FP	6.4	NS-FP	NS-FP	6.5	NS-FP	NS-NW	NA	NA	NA	NS-NW	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	NA	6.55	7.4	NS-FP	6.47	8.34	6.87	6.82	7.51	7.15	6.83	NS-FP	NS-FP	7.04	NS-FP	7.24	NA	NA	NA	6.94
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	NA	6.59	6.39	6.39	6.6	6.42	7.48	6.49	6.52	7.66	NS-FP	NS-FP	6.49	6.8	6.62	NA	NA	NA	6.7	
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	NA	7.2	7	6.96	7	6.94	7.05	7.1	7.01	6.9	7	NS-FP	NS-FP	7.1	6.87	7	NA	NA	NA	6.69
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	NA	7.04	6.76	6.93	6.65	6.85	6.92	7.03	6.81	6.75	6.97	NS-FP	NS-FP	7.03	NS-FP	NS-NW	NA	NA	NA	6.52
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	NA	7.4	6.76	7.4	6.63	7.1	7.6	6.88	7.3	6.63	6.85	NS-FP	NS-FP	6.96	NS-FP	6.4	NA	NA	NA	7.1
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Sep-06	NA	NA	NA	NS-NW	NS-NW																					

Table 4: Detected VOCs from Groundwater Sample Results using EPA Method 8260

Table 4: Detected VOCs from Groundwater Sample Results using EPA Method 8260 ($\mu\text{g/L}$)																											
							20	10	50	250	1	1	2	10	20	1	100	1	25	10	1	1	100				
VOCs	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
Acetone	Oct-01	<1,250	<250	<625	NS-NW	Table 2	1,190																				
	Feb-02	<625	<62.5	3,150	NS-FP	NS-FP	746																				
	Jun-02	<1,250	<2,500	<625	NS-FP	NS-FP	<125	NS-FP	<500																		
	Oct-02	<2,500	<250	<250	NS-FP	NS-FP	<1,250	NS-FP	<125																		
	Dec-02	NA	<1,250	<1,250	NS-FP	NS-FP	<625	NS-FP	<125	29,900	662	<125	<25	<625	<250	<1,250	<25	26,000	70,000	<25	<125						
	Mar-03	NA	<5,000	<2,500	NS-FP	NS-FP	<625	NS-FP	<125	25,600	6,760	<250	<25	<625	<250	<625	<25	39,700	70,200	<25	<125						
	Jun-03	NA	<500	<1,000	NS-FP	NS-FP	<125	NS-FP	<50	46,400	13,600	<125	<25	<25	<62.5	<125	<25	62,700	105,000	<62.5	<5	<250	<25	<25	34,100		
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<50	73,000	6,950	<12.5	<5	<5	<10	<125	<5	44,200	NS-FP	<5	<25	NS-NW	<5	<5	<5	24,500	
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	19,200	2,240	<12.5	<5	<10	<12.5	NS-FP	<5	32,400	NS-FP	<5	<100	NS-NW	Table 5	Table 5	Table 5	NS-NW	
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<50	Table 2	33,000	<12.5	<5	<5	<5	NS-FP	<5	Table 2	Table 2	<5	<12.5	<10	Table 5	Table 5	Table 5	10,200	
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	888	<10	<5	<5	<5	NS-FP	<5	NS-FP	NS-FP	<5	<10	NS-NW	<5	<5	<5	7,220	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<25	NS-FP	566	<10	<5	<5	<5	NS-FP	<5	NS-FP	NS-FP	<5	<10	NS-NW	<5	<5	<5	NA	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<25	NS-FP	<500	<5	<5	<10	<5	NS-FP	<5	NS-FP	NS-FP	<5	NS-FP	NS-NW	<5 SM	<5 SM	<5 SM	NS-NW	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<500	<12.5	NS-FP	151,000	<12.5	<5	<5	<5	<125	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	7,170	
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<1,000	8,950	<5	<5	<5	<100	<250	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	64,200	
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	1,300	160	2,290	1,130	<5	<5	<5	<100	<250	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	23,800	
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	<50	<50	<1,250	<500	<5	<5	<42	<5	<100	<5	NS-FP	NS-FP	<5	NS-FP	NS-NW	<5 SM	<5 SM	<5 SM	9,440	
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<1000	<100	<1000	<1000	<5	<5	<5	<10	<100	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	NA	
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<250	<500	<5	<5	<10	<25	<100	<5	NS-FP	NS-FP	<5	<50	<50	<5 SM	<5 SM	<5 SM	17,200	
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<250	<1,250	<5	<5	<10	<50	<100	<5	1,670J	NS-FP	<5	<125	<50	<5 SM	<5 SM	<5 SM	7,680	
	Dec-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<500	<1,000	<5	<5	<10	<10	<100	<5	NS-FP	NS-FP	<5	<250	NS-NW	<5 SM	<5 SM	<5 SM	NS-NW	
	Mar-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22200	NS-FP	ND	ND	ND	ND	ND	ND	ND	10,300
	Jun-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17200	NS-FP	ND	ND	ND	ND	ND	ND	ND	5,450
	Sep-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2400	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	NS-NW
	Dec-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	NS-NW
	Mar-08	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	8,800
Benzene	Feb-94	194	<100	63	111	795	46																				
	Nov-00	<2,500	61	73	NS-FP	NS-FP	65																				
	Oct-01	125	105	110	NS-NW	Table 2	55																				
	Feb-02	231	204	108	NS-FP	NS-FP	63.2																				
	Jun-02	300	222	125	NS-FP	NS-FP	<5	NS-FP	90.8																		
	Oct-02	245	177	99.2	NS-FP	NS-FP	121	NS-FP	893																		
	Dec-02	NA	180	137	NS-FP	NS-FP	<25	NS-FP	85.2	<500	431	19.5	1	<25	<10	79	<1	610	1,160	<1	7.9						
	Mar-03	NA	172	127	NS-FP	NS-FP	62.6	NS-FP	54	302	974	13.3	<1	<25	<10	82.5	<1	<500	1,100	<1	9						
	Jun-03	NA	<100	<200	NS-FP	NS-FP	61	NS-FP	64.4	250	520	<5	<1	<1	5.7	97.5	<1	392	1,390	<2.5	18	13.5	<1	<1	<1	125	
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	75	340	775	5.5	<1	5.5	5.6	72	<1	380	NS-FP	<1	53	NS-NW	<1	<1	<1	270	
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	2.1	292	768	9.1	<1	14.6	12.9	NS-FP	<1	415	NS-FP	1.3	64	NS-NW	Table 5	Table 5	Table 5	NS-NW	
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	29.3	Table 2	935	7.5	<1	4.5	36.1	NS-FP	<1	Table 2	Table 2	<1	92.7	34	Table 5	Table 5	Table 5	225	
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	26.8	NS-FP	715	2.2	<1	1.9	3.4	NS-FP	<1	NS-FP	NS-FP	<1	5	NS-NW	<1	<1	<1	142	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	23.9	NS-FP	709	0.6	<1	3.2	14.6	NS-FP	<1	NS-FP	NS-FP	<1	116	NS-NW	<1	<1	<1	NA	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	17	NS-FP	1,040	<1	<1	<2	1.8	NS-FP	<1	NS-FP	NS-FP	<1	NS-FP	NS-NW	<1 SM	<1 SM	<1 SM	NS-NW	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	254	28	NS-FP	423	<2.5	<1	1.1	22.4	61.3	<1	NS-FP	NS-FP	<1	NS-FP	26.2	<1 SM	<1 SM	<1 SM	174	
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	268	30.4	<																	

Table 4 (cont.): Detected VOCs from Groundwater Sample Results using EPA Method 8260 ($\mu\text{g/L}$)

VOCs	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26
2-Butanone (MEK)	Feb-94	NA	NA	NA	NA	NA	NA	NA	NA																	
	Nov-00	3,100	<10,000	<10,000	NS-FP	NS-FP	1,400																			
	Oct-01	<1,250	<250	500	NS-NW	Table 2	980																			
	Feb-02	<625	<62.5	<500	NS-FP	NS-FP	<50																			
	Jun-02	<1,250	<2,500	<625	NS-FP	NS-FP	<125	NS-FP	<500																	
	Oct-02	<2,500	<250	<250	NS-FP	NS-FP	<1,250	NS-FP	<125																	
	Dec-02	NA	<1,250	<1,250	NS-FP	NS-FP	<625	NS-FP	10300	15,300	1,160	<125	<25	<625	<250	<1,250	<25	9,300	18,500	<25	<125					
	Mar-03	NA	<5,000	<2,500	NS-FP	NS-FP	<625	NS-FP	<125	21,100	15,600	<250	<25	<625	<250	<625	<25	23,900	28,900	<25	<125					
	Jun-03	NA	<500	<1,000	NS-FP	NS-FP	<125	NS-FP	<50	20,200	5,860	<125	<25	<25	<62.5	<125	<25	29,800	43,800	<62.5	<5	<250	<25	<25	<25	
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<50	58,000	5,580	<12.5	<5	<5	<10	<125	<5	32,000	NS-FP	<5	<25	NS-NW	<5	<5	<5	
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	4,080	<1,000	<12.5	<5	<10	<12.5	NS-FP	<5	23,700	NS-FP	<5	<100	NS-NW	Table 5	Table 5	Table 5	
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<50	Table 2	13,600	<12.5	<5	<5	<5	NS-FP	<5	Table 2	Table 2	<5	<12.5	<10	Table 5	Table 5	Table 5	
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<250	<10	<5	<5	<5	NS-FP	<5	NS-FP	<5	<10	NS-NW	<5	<5	<5		
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<25	NS-FP	<125	<10	<5	<5	<5	NS-FP	<5	NS-FP	NS-FP	<5	<10	NS-NW	<5	<5	NA	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<25	NS-FP	<500	<5	<5	<10	<5	NS-FP	<5	NS-FP	NS-FP	<5	NS-FP	NS-NW	<5 SM	<5 SM	<5 SM	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<500	<12.5	NS-FP	18,000	<12.5	<5	<5	<5	<125	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<1,000	<500	<5	<5	<5	<100	<250	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	<500	<50	<1,250	<500	<5	<5	<10	<5	<100	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	<50	<50	<1,250	<500	<5	<5	<10	<5	<100	<5	NS-FP	NS-FP	<5	NS-FP	NS-NW	<5 SM	<5 SM	<5 SM	
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<1000	<100	<1,000	<1000	<5	<5	<5	<10	<100	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	NA	
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<250	<500	<5	<5	<10	<25	<100	<5	NS-FP	NS-FP	<5	<50	<50	<5 SM	<5 SM	<5 SM	
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<250	<1,250	<5	<5	<10	<50	<100	<5	562J	NS-FP	<5	<125	<50	<5 SM	<5 SM	<5 SM	
	Dec-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<500	<1,000	<5	<5	<10	<10	<100	<5	NS-FP	NS-FP	<5	<250	NS-NW	<5 SM	<5 SM	<5 SM	
	Mar-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10300	NS-FP	ND	ND	ND	ND	ND	ND	
	Jun-07	NA	NA	NA	NS-NM	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9,050	NS-FP	ND	ND	ND	ND	ND	ND	
	Sep-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,780	NS-FP	ND	ND	NS-NW	ND	ND	ND	
	Dec-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	
	Mar-08	NA	NA	NA	NS-NW	NS-NW	NA																			
Chloroethane	Feb-02	<125	119	<100	NS-FP	NS-FP	17																			
	Jun-02	<250	<500	<125	NS-FP	NS-FP	<25	NS-FP	<100																	
	Oct-02	<500	<50	<50	NS-FP	NS-FP	<250	NS-FP	<25																	
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	<125	<25	<5	<125	<50	<250	<5	<500	<2,500	<5	<25					
	Mar-03	NA	<1,000	<500	NS-FP	NS-FP	248	NS-FP	<25	<1,000	989	<50	<5	<125	<50	<125	<5	<2,500	<2,500	<5	<25					
	Jun-03	NA	4,500	11,500	NS-FP	NS-FP	311	NS-FP	<20	5,000	760	<10	<2	<2	<5	<50	<2	1,970	2,860	<5	<2	<20	<2	<2	<2	<100
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	940	1,700	<5	<2	<2	<4	<50	<2	460	NS-FP	<2	<10	NS-NW	<2	<2	<2	<100
	Dec-03	NA	NA																							

Table 4 (cont.): Detected VOCs from Groundwater Sample Results using EPA Method 8260 (µg/L)

Table 4 (cont.): Detected VOCs from Groundwater Sample Results using EPA Method 8260 ($\mu\text{g/L}$)																											
VOCs	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
1,1-Dichloroethane (1,1-DCA)	Feb-94	649	1,130	85	1410	2,260	2,130																				
	Nov-00	17,000	1,800	800	NS-FP	NS-FP	2,800																				
	Oct-01	8,190	1,500	1,030	NS-NW	Table 2	2,670																				
	Feb-02	20,600	2,310	1,350	NS-FP	NS-FP	5,490																				
	Jun-02	18,900	2,700	1,340	NS-FP	NS-FP	4,150	NS-FP	1,210																		
	Oct-02	10,400	2,550	1,130	NS-FP	NS-FP	5,680	NS-FP	1,390																		
	Dec-02	NA	1,920	1,190	NS-FP	NS-FP	3,530	NS-FP	1,190	42,400	19,400	3,930	17.3	171	79.8	3,930	13	4,390	5,150	16.2	141						
	Mar-03	NA	2,180	1,710	NS-FP	NS-FP	3,750	NS-FP	1,020	41,900	48,800	1,600	6.4	150	117	3,130	2.5	6,700	5,110	18	276						
	Jun-03	NA	1,140	1,020	NS-FP	NS-FP	3,470	NS-FP	1,480	51,700	37,800	354	11.5	<2	107	3,330	<2	9,820	6,840	47.6	535	1,200	<2	<2	<2	931	
	Sep-03	NA	NA	NS-NW	NS-FP	NA	NS-FP	1,950	47,400	43,000	505	<2	101	88	4,450	<2	7,040	NS-FP	28.5	1,370	NS-NW	3.1	<2	5	1,670		
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	50	53,500	49,200	735	2.3	219	262	NS-FP	<2	5,440	NS-FP	123	2,300	NS-NW	Table 5	Table 5	Table 5	NS-NW	
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	965	Table 2	52,700	485	2.5	110	672	NS-FP	<1	Table 2	Table 2	89.2	2,240	1,900	Table 5	Table 5	Table 5	3,620	
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	910	NS-FP	55,000	300	8.8	45.9	53.6	NS-FP	4.3	NS-FP	NS-FP	12.8	203	NS-NW	<1	<1	<1	1,750	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	628	NS-FP	29,400	160	2.8	151	168	NS-FP	<1	NS-FP	NS-FP	2.5	2,760	NS-NW	2.9	52.1	<1	NA	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	496	NS-FP	85,300	156	17.4	101	101	NS-FP	<1	NS-FP	NS-FP	1.9	NS-FP	NS-NW	<1	<1	<1	NS-NW	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	22,300	1,230	NS-FP	34,800	191	15.5	63.6	693	3,030	<1	NS-FP	NS-FP	7.7	NS-FP	1,390	9.4	2.3	<1	1,670	
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	23,000	1,640	44,000	27,900	49.1	11.5	181	961	2,590	<1	NS-FP	NS-FP	7.3	NS-FP	1,620	6.3	1	<1	2,010	
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	45,000	2,570	46,600	45,200	63.4	8.9	151	108	4,060	<1	NS-FP	NS-FP	17.4	NS-FP	1,870	4.0	5.4	<1	2,230	
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	33,000	2,430	33,100	34,100	20.5	5.5	77.2	262	3,990	<1	NS-FP	NS-FP	27.1	NS-FP	NS-NW	51.5	5.9	<1	2,300	
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	25,700	2,130	26,000	41,300	1.5J	4.9J	7.9	50.3	3,390*	<1	NS-FP	NS-FP	3.6J	NS-FP	1,060	<1	7.2	NA	1,850	
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	3,400	1,230	12,800*	49,900*	2.7	2.2	137	556	1,910	<1	NS-FP	NS-FP	8.5	1,440	597	<1	1.5	<1	1,570	
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	3,360*	1,470	12,400*	34,100	2	3.8	190	554	2,840	1.4J	9,660	NS-FP	16.6	920	921	<1	5.0	<1	952	
	Dec-06	NA	NA	NA	NS-NW	NS-NW	NA	4,520*	1,290	8,250	33,000	2.4	3.6	199	225	2,710	<1	NS-FP	NS-FP	10.6	1,550	NS-NW	<1	14.4	<1	NS-NW	
	Mar-07	NA	NA	NA	NS-NW	NS-NW	NA	7430	1,140	3,980	27,200	4.4	1.1	286	89.1	2930	ND	18,200	NS-FP	3.2	943	41	ND	3	ND	1,850	
	Jun-07	NA	NA	NA	NS-NW	NS-NW	NA	16,900	1,020	732	17,300	2.4	ND	201	84.9	2,230	ND	18,400	NS-FP	12.3	737	54	ND	ND	ND	1,410	
	Sep-07	NA	NA	NA	NS-NW	NS-NW	NA	18,500	838	589	17,300	2	ND	218	72	3,000	ND	9,500	NS-FP	ND	1,480	NS-NW	ND	2	ND	NS-NW	
	Dec-07	NA	NA	NA	NS-NW	NS-NW	NA	11,600	917	310	18,500	5	ND	319	45	2,530	ND	NS-FP	NS-FP	ND	3,610	NS-NW	ND	2	ND	NS-NW	
	Mar-08	NA	NA	NA	NS-NW	NS-NW	NA	18,900	1,150	376	10,600	8	ND	379	95	3,010	ND	NS-FP	NS-FP	ND	2,640	NS-NW	ND	ND	ND	1,790	
1,2-Dichloroethane	Feb-94	<100	<100	<50	<100	1140	31																				
	Nov-00	<2,500	<500	<500	NS-FP	NS-FP	<500																				
	Oct-01	<250	<50	<125	NS-NW	Table 2	<25																				
	Feb-02	<125	<12.5	<100	NS-FP	NS-FP	43.4																				
	Jun-02	<250	<500	<125	NS-FP	NS-FP	<25	NS-FP	<100																		
	Oct-02	<500	<50	<50	NS-FP	NS-FP	<250	NS-FP	<25																		
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	<125	<25	<5	<125	<50	28	<5	<500	<2,500	<5	<25						
	Mar-03	NA	<1,000	<500	NS-FP	NS-FP	<125	NS-FP	11.5	<1,000	228	<50	<5	<125	<50	57.5	<5	<2,500	<2,500	<5	<25						
	Jun-03	NA	<200	<400	NS-FP	NS-FP	<50	NS-FP	<20	<400	<400	<10	<2	<2	<5	<50	<2	<400	<1,000	<5	<2	<20	<2	<2	<100		
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	<400	103	<5	<2	<2	<4	<50	<2	<200	NS-FP	<2	<10	NS-NW	<2	<2	<2	<100	
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	<400	<400	<5	<2	<2	<9.2	<5	NS-FP	<2	<200	NS-FP	<2	<40	NS-NW	Table 5	Table 5	Table 5	NS-NW
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	Table 2	130	<5	<2	<2	5	2.1	NS-FP	<2	Table 2	Table 2	<2	17.5	11.7	Table 5	Table 5	Table 5	<100
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	4.6	NS-FP	45	<4	<2	<2	<2	NS-FP	<2	NS-FP	NS-FP	<2	1.8	NS-NW	<2	<2	<2	<40	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<50	<4	<2	<2	6	<2	NS-FP	<2	NS-FP	NS-FP	<2	18.3	NS-NW	<2	<2	<2	NA
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<200	<2	<2	<4	<2	NS-FP	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	6.1	13.9	2.4	NS-NW	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	<5	NS-FP	<200</td																

Table 4 (cont.): Detected VOCs from Groundwater Sample Results using EPA Method 8260 ($\mu\text{g/L}$)

VOCs	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26		
1,1-Dichloroethene (1,1-DCE)	Feb-94	2,210	2,460	2,800	806	1,240	151																					
	Nov-00	3,000	<500	2,900	NS-FP	NS-FP	350																					
	Oct-01	1,200	1,120	4,090	NS-NW	Table 2	355																					
	Feb-02	4,050	1,480	3,900	NS-FP	NS-FP	778																					
	Jun-02	4,900	2,090	2,690	NS-FP	NS-FP	423	NS-FP	1,540																			
	Oct-02	3,800	2,100	176	NS-FP	NS-FP	547	NS-FP	1,620																			
	Dec-02	NA	2,230	196	NS-FP	NS-FP	538	NS-FP	1,480	2,640	3,460	154	38.5	142	52.4	1,530	18.6	6,850	17,700	25.6	207							
	Mar-03	NA	2,490	1,410	NS-FP	NS-FP	213	NS-FP	1,100	2,550	2,940	16.5	16.8	125	60.8	2,470	17.1	5,290	18,600	16.5	280							
	Jun-03	NA	1,490	2,370	NS-FP	NS-FP	364	NS-FP	1,290	3,370	1,480	29.2	44.2	29.6	124	3,500	16	4,610	24,200	246	755	155	2	<2	4.2	2,340		
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	1,620	1,760	1,050	14.5	27.2	274	98	2,470	14.2	4,260	NS-FP	45.7	1,800	NS-NW	<2	<2	<2	5,600		
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	43.5	2,750	1,810	7.3	10.8	675	234	NS-FP	7.8	4,170	NS-FP	43.8	1,960	NS-NW	Table 5	Table 5	Table 5	NS-NW		
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	1,260	Table 2	520	7.3	6.7	264	725	NS-FP	3.8	Table 2	Table 2	21	2,540	440	Table 5	Table 5	Table 5	7,740		
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	1,100	NS-FP	435	4.5	30.7	96.9	40.5	NS-FP	24.7	NS-FP	NS-FP	78.1	299	NS-NW	9.7	15.6	7.9	8,150		
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	909	NS-FP	434	4.5	13.9	346	198	NS-FP	2.9	NS-FP	NS-FP	10.5	2,730	NS-NW	0.7	1.7	<2	NA		
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	731	NS-FP	360	1.8	22.7	185	70.2	NS-FP	5.5	NS-FP	NS-FP	14.6	NS-FP	NS-NW	3.2 SM	8.6 SM	9.0 SM	NS-NW		
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	1,690	1,240	NS-FP	339	5.7	34.9	140	945	1,840	10.2	NS-FP	NS-FP	12.1	NS-FP	564	<2 SM	17.7 SM	17.5 SM	8,040		
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	12,580	1,260	2,750	418	<2	34.9	396	858	1,370	7.1	NS-FP	NS-FP	18.7	NS-FP	441	<2 SM	16.5 SM	5.3 SM	9,250		
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	1,960	2,200	1,530	911	<2	46.7	452	142	3,430	15.2	NS-FP	NS-FP	41.8	NS-FP	526	57.8 SM	22.9 SM	10.3 SM	11,100		
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	1,100	2,000	1,170	800	<2	49.8	262	89.1	3,480	11.3	NS-FP	NS-FP	57.4	NS-FP	NS-NW	636 SM	50.6 SM	8.2 SM	9,210		
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	490J	2,090*	524J	956J	<2	65.8	46.9	120	2,380	21.7	NS-FP	NS-FP	<2	NS-FP	77.0J	21.3 SM	56.6 SM	NA	9,050		
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	118	1,240	364	417J	<2	2.2J	404	141	732	1.6J	NS-FP	NS-FP	16.3	1,690	50.7	4.1J SM	17.6 SM	5.4 SM	7,370		
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	210	1,460	134J	248J	<2	4.6	566*	134	2,240	2.7J	833	NS-FP	26.8	1,160	93	5.7 SM	39.1 SM	3.9 SM	5,100		
	Dec-06	NA	NA	NA	NS-NW	NS-NW	NA	244	965	<200	276J	<2	10.7	572	44.4	2,280	5.4	NS-FP	NS-FP	51.8	1,850	NS-NW	4.9 SM	76.1 SM	4.2 SM	NS-NW		
	Mar-07	NA	NA	NA	NS-NW	NS-NW	NA	509	1,340	84	188	ND	62.8	728	ND	2820	2.2	2,720	NS-FP	49.5	1,040	2.3	4.7	27.7	4.7	7,940		
	Jun-07	NA	NA	NA	NS-NW	NS-NW	NA	205	1,620	ND	ND	56.5	610	ND	2,380	2.5	2,810	NS-FP	195	1,170	4.3	10.9	26.1	5.3	7,460			
	Sep-07	NA	NA	NA	NS-NW	NS-NW	NA	200	809	ND	120	ND	52.9	465	ND	2,040	1.6	1,330	NS-FP	5.4	1,330	NS-NW	5.8	48.9	19.7	NS-NW		
	Dec-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	1,040	ND	209	ND	4.7	562	8.6	1,480	6.2	NS-FP	NS-FP	2.3	732	NS-NW	11.1	51	104	NS-NW		
	Mar-08	NA	NA	NA	NS-NW	NS-NW	NA	ND	1,100	ND	137	ND	8.6	610	25.7	1,650	5.3	NS-FP	NS-FP	7.2	1,820	NS-NW	83	41.2	32	7,170		
cis 1,2-Dichloroethene (cis 1,2-DCE)	Feb-94	NA	NA	NA	NA	NA	NA																					
	Nov-00	20,000	9,500	5,700	NS-FP	NS-FP	210																					
	Oct-01	10,300	9,150	7,000	NS-NW	Table 2	194																					
	Feb-02	29,100	11,100	7,960	NS-FP	NS-FP	268																					
	Jun-02	31,100	14,800	6,860	NS-FP	NS-FP	238	NS-FP	612																			
	Oct-02	20,700	10,400	212	NS-FP	NS-FP	311	NS-FP	736																			
	Dec-02	NA	11																									

Table 4 (cont.): Detected VOCs from Groundwater Sample Results using EPA Method 8260 ($\mu\text{g/L}$)

VOCs	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26				
trans 1,2-Dichloroethene	Feb-94	NA	NA	NA	NA	NA	NA																							
	Nov-00	<2,500	<500	<500	NS-FP	NS-FP	<500																							
	Oct-01	<250	<50	<125	NS-NW	Table 2	<25																							
	Feb-02	<125	<12.5	<100	NS-FP	NS-FP	<10																							
	Jun-02	<250	<500	<125	NS-FP	NS-FP	<25	NS-FP	<100																					
	Oct-02	<500	<50	<50	NS-FP	NS-FP	<250	NS-FP	<25																					
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	<125	<25	<5	<125	<50	<250	<5	<500	<2,500	<5	<25									
	Mar-03	NA	<1,000	<500	NS-FP	NS-FP	<125	NS-FP	<25	<1,000	<500	<50	<5	<125	<50	<125	<5	<2,500	<2,500	<5	<25									
	Jun-03	NA	<200	<400	NS-FP	NS-FP	<50	NS-FP	<20	<400	<400	<10	<2	<2	<5	<50	<2	<400	<1,000	<5	<2	<20	<2	<2	<2	<100				
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	<400	<400	<5	<2	<2	<4	<5	NS-FP	<2	<200	NS-FP	<2	12	NS-NW	<2	<2	<2	120			
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	<400	<400	5	<2	<2	<4	<5	NS-FP	<2	<200	NS-FP	<2	<40	NS-NW	Table 5	Table 5	Table 5	NS-NW			
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	Table 2	<100	<5	<2	<2	29.4	NS-FP	<2	Table 2	<2	14.5	32.3	Table 5	Table 5	Table 5	<100					
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<4	NS-FP	<100	<4	<2	<2	<2	NS-FP	<2	NS-FP	<2	2	NS-NW	<2	<2	<2	<40					
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<50	<4	<2	<2	<2	NS-FP	<2	NS-FP	<2	24	NS-NW	<2	<2	<2	NA					
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<200	<2	<2	<4	<2	NS-FP	<2	NS-FP	<2	NS-FP	NS-NW	<2	SM	<2	SM	<2	SM	NS-NW		
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	<5	NS-FP	<200	<5	<2	<2	<2	<50	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2	SM	<2	SM	<2	SM	<100	
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<400	<200	<2	<2	<2	<40	<100	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2	SM	<2	SM	<2	SM	<100	
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	<20	<500	<200	<2	<2	<4	<2	<40	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2	SM	<2	SM	<2	SM	<100	
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	<20	<20	<500	<200	<2	<2	<4	<2	<40	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2	SM	<2	SM	<2	SM	<100	
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<400	<40	<400	<400	<2	<2	<2	<4	<40	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2	SM	<2	SM	<2	SM	<200	
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<100	<200	<2	<2	<4	<2	<40	<2	NS-FP	NS-FP	<2	NS-FP	<20	<2	SM	<2	SM	<2	SM	<200	
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<100	<500	<2	<2	<4	<2	<20	<2	NS-FP	NS-FP	<2	NS-FP	<50	<2	SM	<2	SM	<2	SM	<200	
	Dec-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<200	<400	<2	<2	<4	<2	<40	<2	NS-FP	NS-FP	<2	<100	NS-NW	<2	SM	<2	SM	<2	SM	NS-NW	
	Mar-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Jun-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	
	Sep-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS-NW	ND	ND	ND	ND	ND	NS-NW	
	Dec-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	ND	ND	
	Mar-08	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	ND	ND	
1,4 Dioxane	Oct-02				NS-FP	NS-FP		NS-FP																						
	Dec-02	NA	<5,000	<5,000	NS-FP	NS-FP	11,500	NS-FP	6,540	<50,000	<2,500	<500	<100	<2,500	<1,000	16,500	<100	<10,000	<50,000	176	<500									
(* = Analyzed using EPA Method 8270)	Mar-03	NA	<10,000	<5,000	NS-FP	NS-FP	21,900	NS-FP	7,200	<10,000	<5,000	<250	29	<625	<250	6,850	<25	<25,000	<25,000	112	<125									
	Jun-03	NA	<5,000	<10,000	NS-FP	NS-FP	22,300	NS-FP	12,800	<10,000	<10,000	<250	<50	<50	<125	12,000	<50	<10,000	<25,000	<125	<50	<500	<50 SM	<50 SM	<50 SM	<2,500				
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	7,150	<10,000	<1,250	<125	<50	<50	<100</td															

Table 4 (cont.): Detected VOCs from Groundwater Sample Results using EPA Method 8260 ($\mu\text{g/L}$)

VOCs	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26		
Ethylbenzene	Feb-94	333	1,720	115	1,180	1,910	45																					
	Nov-00	960	120	1,000	NS-FP	NS-FP	82																					
	Oct-01	805	197	1,550	NS-NW	Table 2	107																					
	Feb-02	875	115	1,360	NS-FP	NS-FP	94.4																					
	Jun-02	1,450	147	1,470	NS-FP	NS-FP	124	NS-FP	<1																			
	Oct-02	884	469	945	NS-FP	NS-FP	213	NS-FP	<1																			
	Dec-02	NA	590	1,150	NS-FP	NS-FP	50	NS-FP	<5	1,480	967	270	<1	334	<10	<50	<1	425	1,710	<1	<5							
	Mar-03	NA	614	982	NS-FP	NS-FP	100	NS-FP	<5	1,280	1,650	200	<1	25.3	<10	<25	<1	1,050	2,270	<1	<5							
	Jun-03	NA	<100	722	NS-FP	NS-FP	85.3	NS-FP	<10	1,400	940	11.1	<1	<1	<2.5	<25	<1	1,010	2,480	<2.5	31	<10	<1	<1	<1	<1	1,620	
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<10	1,360	1,010	52.5	2	<1	<2	<25	<1	740	NS-FP	<1	5.5	NS-NW	<1	<1	<1	<1	2,900	
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<1	1,450	1,140	157	<1	<2	<2.5	NS-FP	<1	690	NS-FP	<1	<1	NS-NW	Table 5	Table 5	Table 5	NS-NW		
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	Table 2	1,080	254	<1	<1	6.7	NS-FP	<1	Table 2	Table 2	<1	6.8	<2	Table 5	Table 5	Table 5	3,180		
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	NS-FP	833	74.4	<1	<1	2.5	NS-FP	<1	NS-FP	NS-FP	<1	<2	NS-NW	<1	<1	<1	<1	2,830	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	NS-FP	1,160	160	<1	<1	4.7	NS-FP	<1	NS-FP	NS-FP	<1	9.4	NS-NW	<1	<1	<1	<1	NA	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	NS-FP	1,360	84.8	<1	<2	<1	NS-FP	<1	NS-FP	NS-FP	<1	NS-FP	NS-NW	<1	<1	<1	<1	NS-NW	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	1,270	<2.5	NS-FP	860	61	<1	<1	2.4	342	<1	NS-FP	NS-FP	<1	NS-FP	<20	<1	<1	<1	<1	3,060	
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	1,230	<10	1,990	1,060	42.7	<1	<1	<20	323	<1	NS-FP	NS-FP	<1	NS-FP	<20	<1	<1	<1	<1	3,530	
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	1,120	16.5	1,260	1,360	21.2	<1	46.6	1.8	221	<1	NS-FP	NS-FP	<1	NS-FP	<20	<1	<1	<1	<1	1,950	
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	1,780	<10	1,820	1,650	10.3	<1	<4	7.2	242	<1	NS-FP	NS-FP	<1	NS-FP	NS-NW	<1	<1	<1	<1	2,070	
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	1,320	<20	1,510	714	<1	<1	<2	219	<1	NS-FP	NS-FP	<1	NS-FP	<1	<1	<1	<1	NA	1,670		
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	497	<10	1,550	619	<1	<1	<2	<5	68.8	<1	NS-FP	NS-FP	<1	860	<10	<1	<1	<1	<1	2,380	
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	603	<10	1,430	1,290	<1	<1	<2	<10	270	<1	2,020	NS-FP	<1	437	<10	<1	<1	<1	<1	1,150	
	Dec-06	NA	NA	NA	NS-NW	NS-NW	NA	768	<10	1,840	1,080	<1	<1	<2	16.5	245	<1	NS-FP	NS-FP	<1	545	NS-NW	<1	<1	<1	<1	NS-NW	
	Mar-07	NA	NA	NA	NS-NW	NS-NW	NA	246	ND	1,410	844	ND	ND	ND	89.9	170	ND	1740	NS-FP	ND	ND	ND	ND	ND	ND	ND	1260	
	Jun-07	NA	NA	NA	NS-NW	NS-NW	NA	424	ND	857	751	ND	ND	ND	95.6	140	ND	2,980	NS-FP	ND	ND	ND	ND	ND	ND	ND	1,050	
	Sep-07	NA	NA	NA	NS-NW	NS-NW	NA	516	ND	865	1,030	ND	ND	ND	86.9	192	ND	1,950	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	NS-NW	
	Dec-07	NA	NA	NA	NS-NW	NS-NW	NA	127	ND	843	1,030	2.5	ND	ND	2.1	166	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	NS-NW	
	Mar-08	NA	NA	NA	NS-NW	NS-NW	NA	456	ND	ND	1270	ND	ND	ND	ND	118	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	ND	
Methylene Chloride	Feb-94	1,220	2,980	6,530	4,760	21,400	<50																					
	Nov-00	1,100	180	5,600	NS-FP	NS-FP	180																					
	Oct-01	<1,250	<250	<625	NS-NW	Table 2	<125																					
	Feb-02	<250	18.5	3,960	NS-FP	NS-FP	<20																					
	Jun-02	<250	<500	<125	NS-FP	NS-FP	<25	NS-FP	<100																			
	Oct-02	<500	<50	<50	NS-FP	NS-FP	<250	NS-FP	<25																			
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	<125	<25	<5	<125	<50	<250	<5	<500	<2,500	<5	<25							
	Mar-03	NA	<1,000	1,630	NS-FP	NS-FP	<125	NS-FP	<25	<1,000	<500	<50	<5	<														

Table 4 (cont.): Detected VOCs from Groundwater Sample Results using EPA Method 8260 ($\mu\text{g/L}$)

VOCs	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
4-Methyl-2-pentanone (MIBK)	Oct-01	<1,250	<250	4,130	NS-NW	Table 2	625																				
	Feb-02	<625	<62.5	3,470	NS-FP	NS-FP	376																				
	Jun-02	<1,250	<2,500	2,850	NS-FP	NS-FP	388	NS-FP	<500																		
	Oct-02	<2,500	<250	1,410	NS-FP	NS-FP	276	NS-FP	<125																		
	Dec-02	NA	<1,250	<1,250	NS-FP	NS-FP	<625	NS-FP	<125	<12,500	3,540	<125	<25	<625	<250	<1,250	<25	<2,500	<12,500	<25	<125						
	Mar-03	NA	<5,000	<2,500	NS-FP	NS-FP	<625	NS-FP	<125	8,160	3,680	<250	<25	<625	<250	<625	<25	7,400	10,100	<25	<125						
	Jun-03	NA	<500	<1,000	NS-FP	NS-FP	<125	NS-FP	<50	6,020	5,340	<125	<25	<25	<62.5	<125	<25	12,600	14,400	<62.5	<5	<250	<25	<25	<25	9,250	
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<50	10,900	1,370	<12.5	<5	<5	<10	<125	<5	4,100	NS-FP	<5	<25	NS-NW	<5	<5	<5	7,350	
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	3,120	<1,000	<12.5	<5	<10	<12.5	NS-FP	<5	1,330	NS-FP	<5	<100	NS-NW	Table 5	Table 5	Table 5	NS-NW	
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<50	Table 2	<250	<12.5	<5	<5	<5	NS-FP	<5	Table 2	Table 2	<5	<12.5	<10	Table 5	Table 5	Table 5	6,600	
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<250	<10	<5	<5	<5	NS-FP	<5	NS-FP	NS-FP	<5	<10	NS-NW	<5	<5	<5	5,320	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<25	NS-FP	<125	<10	<5	<5	<5	NS-FP	<5	NS-FP	NS-FP	<5	<10	NS-NW	<5	<5	<5	NA	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<25	NS-FP	<500	<5	<5	<10	<5	NS-FP	<5	NS-FP	NS-NW	<5	<5	<5	<5	NS-NW			
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<500	<12.5	NS-FP	1,200	<12.5	<5	<5	<5	<125	<5	NS-FP	NS-FP	<5	<100	<5	<5	<5	<5	5,550	
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<1,000	<500	<5	<5	<5	<100	<100	<250	<5	NS-FP	NS-FP	<5	<100	<5	<5	<5	<5	4,880
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	<500	370	<1,250	<500	<5	<5	<10	<5	<100	<100	<5	NS-FP	NS-FP	<5	<100	<5	<5	<5	<5	4,190
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	<50	<50	<1,250	<500	<5	<5	<10	<5	<100	<100	<5	NS-FP	NS-FP	<5	<100	<5	<5	<5	<5	7,120
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<1000	<100	<1000	<1000	<5	<5	<5	<10	<100	<5	NS-FP	NS-FP	<5	<100	<5	<5	<5	<5	686J	
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<250	<500	<5	<5	<10	<25	<100	<5	NS-FP	NS-FP	<5	<50	<50	<5	<5	<5	<5	2,420J
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<250	<1,250	<5	<5	<10	<50	<100	<5	233J	NS-FP	<5	<125	<50	<5	<5	<5	<500	
	Dec-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<500	<1,000	<5	<5	<10	<10	<100	<5	NS-FP	NS-FP	<5	<250	NS-NW	<5	<5	<5	NS-NW	
	Mar-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Jun-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Sep-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS-NW	
	Dec-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	NS-NW	
	Mar-08	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	
Naphthalene	Oct-01	185	76	<125	NS-NW	Table 2	85																				
	Feb-02	195	64	122	NS-FP	NS-FP	74.8																				
	Jun-02	<250	89.4	178	NS-FP	NS-FP	116	NS-FP	<100																		
	Oct-02	<500	62.2	59.2	NS-FP	NS-FP	<250	NS-FP	<25																		
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	<125	97	<5	<125	<50	<250	<5	<500	<2,500	<5	<25						
	Mar-03	NA	<1,000	206	NS-FP	NS-FP	110	NS-FP	<25	568	222	134	89.4	<125	27.5	55.3	116	1,130	1,610	<5	<25						
	Jun-03	NA	<200	<400	NS-FP	NS-FP	80.3	NS-FP	<20	450	<400	<10	<2	<2	<5	<50	<2	276									

Table 4 (cont.): Detected VOCs from Groundwater Sample Results using EPA Method 8260 ($\mu\text{g/L}$)

VOCs	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
n-Propylbenzene	Jun-02	<250	28.5	<125	NS-FP	NS-FP	<25	NS-FP	<100																		
	Oct-02	<500	44.2	<50	NS-FP	NS-FP	<250	NS-FP	<25																		
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	259	89.5	<5	<125	<50	<250	<5	<500	<2,500	<5	<25						
	Mar-03	NA	<1,000	<500	NS-FP	NS-FP	<125	NS-FP	<25	<1,000	462	191	<5	<125	<50	<125	<5	<2,500	<2,500	<5	<25						
	Jun-03	NA	<200	<400	NS-FP	NS-FP	<50	NS-FP	<20	<400	<400	<10	<2	<2	<5	<50	<2	<400	<1,000	<5	<2	<20	<2	<2	<2	<100	
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	<400	303	45	<2	<2	<4	<50	<2	<200	NS-FP	<2	10.5	NS-NW	<2	<2	<2	<100	
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	<400	<400	123	<2	<4	<5	NS-FP	<2	230	NS-FP	22.9	<40	NS-NW	Table 5	Table 5	Table 5	NS-NW	
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	Table 2	355	237	<2	<2	<2	NS-FP	<2	Table 2	Table 2	<2	14.3	<4	Table 5	Table 5	Table 5	<100	
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<4	NS-FP	210	142	<2	<2	<2	NS-FP	<2	NS-FP	NS-FP	<2	<4	NS-NW	<2	<2	<2	<40	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	230	184	<2	<2	<2	NS-FP	<2	NS-FP	NS-FP	<2	13.4	NS-NW	<2	<2	<2	NA	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	327	128	<2	<4	<2	NS-FP	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	NA	117	<5	NS-FP	220	122	<2	<2	<2	81	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	<100
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	NA	132	<20	<400	<200	117	<2	<2	<40	<100	<2	NS-FP	NS-FP	<2	NS-FP	<20	<2 SM	<2 SM	<2 SM	<100
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	NA	177	<20	<500	270	139	<2	6.6	<2	48.2	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	<100
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	NA	232	<20	1,690	248	105	<2	<4	<2	30.6	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	170
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<400	<40	<400	598J	5.8	<2	<2	<2	27.8J	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	NA	261J	
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	177J	<200	2.3J	<2	<4	<10	60.8J	<2	NS-FP	NS-FP	<2	315	<20	<2 SM	<2 SM	<2 SM	382J	
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	NA	161	<20	96.0J	668J	2.7J	<2	<4	<20	31.6J	<2	944	NS-FP	<2	209	<20	<2 SM	<2 SM	<2 SM	<200
	Dec-06	NA	NA	NA	NS-NW	NS-NW	NA	NA	181	<20	194J	<400	11.4	<2	<4	<4	<40	<2	NS-FP	NS-FP	<2	331	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW
	Mar-07	NA	NA	NA	NS-NW	NS-NW	NA	NA	59.4J	ND	134	ND	ND	ND	ND	ND	ND	392J	NS-FP	ND	ND	ND	ND	ND	ND	ND	
	Jun-07	NA	NA	NA	NS-NW	NS-NW	NA	NA	75	ND	ND	258	ND	ND	ND	ND	ND	869	NS-FP	ND	ND	ND	ND	ND	ND	ND	
	Sep-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS-FP	ND	ND	ND	ND	ND	ND	ND	NS-NW	
	Dec-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	110	23	ND	ND	ND	ND	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	NS-NW
	Mar-08	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	948	172	ND	ND	ND	ND	ND	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)																											
	Feb-94	662	2,150	5,370	3,320	2,130	134																				
	Nov-00	<2,500	<500	130	NS-FP	NS-FP	<500																				
	Oct-01	<100	<20	130	NS-NW	Table 2	100																				
	Feb-02	20	3.3	302	NS-FP	NS-FP	8.2																				
	Jun-02	24.8	<500	133	NS-FP	NS-FP	<25	NS-FP	122																		
	Oct-02	<200	<20	39.3	NS-FP	NS-FP	<100	NS-FP	190																		
	Dec-02	NA	<100	<100	NS-FP	NS-FP	<50	NS-FP	204	<1,000	<50	<10	97.1	<50	<20	268	8.1	534	1,240	9.7	53.1						
	Mar-03	NA	<400	411	NS-FP	NS-FP	<50	NS-FP	136	<400	<200	<20	11	<50	<20	350	25	<1,000	1,480	3.3	17.8						
	Jun-03	NA	258	318	NS-FP	NS-FP	<50	NS-FP	132	<400	<400	<10	161	21.8	29.5	485	35.9	<400	1,460	48.9	<2	<20	4	4.1	12.3	1,920	
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA																				

Table 4 (cont.): Detected VOCs from Groundwater Sample Results using EPA Method 8260 ($\mu\text{g/L}$)

VOCs	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26				
1,1,1-Trichloroethane (1,1,1-TCA)	Feb-94	9,370	3,470	444	36,200	114,000	90																							
	Nov-00	<2,500	<500	70	NS-FP	NS-FP	<500																							
	Oct-01	<250	<50	<125	NS-NW	Table 2	<25																							
	Feb-02	<125	<12.5	<100	NS-FP	NS-FP	<10																							
	Jun-02	<250	<500	<125	NS-FP	NS-FP	<25	NS-FP	<100																					
	Oct-02	<500	<50	<50	NS-FP	NS-FP	<250	NS-FP	92																					
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	32.3	13,800	52.8	21	<5	230	<50	<250	6	1,150	21,500	<5	<25									
	Mar-03	NA	<1,000	<500	NS-FP	NS-FP	<125	NS-FP	35	12,300	<500	14	1.4	77.5	<50	33.5	9.5	665	37,800	<5	14									
	Jun-03	NA	160	<400	NS-FP	NS-FP	<50	NS-FP	18.6	8,430	<400	19	<2	3.4	10.7	42.5	<2	260	61,200	25	70	<20	<2	<2	<2	1,250				
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	4,510	<50	8.7	<2	8.9	6.4	<50	8	420	NS-FP	8.6	150	NS-NW	<2	<2	<2	1,790				
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	7,460	852	10.7	<2	<4	<5	NS-FP	2.2	1,130	NS-FP	81.7	132	NS-NW	Table 5	Table 5	Table 5	NS-NW				
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	11.1	Table 2	170	8.3	<2	<2	7.7	NS-FP	<2	Table 2	Table 2	20.9	186	<4	Table 5	Table 5	Table 5	7,350				
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	24	NS-FP	250	2.5	<2	<2	4.5	NS-FP	7.4	NS-FP	NS-FP	3.4	13.5	NS-NW	3.4	<2	<2	5,730				
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	27.9	NS-FP	485	2.4	<2	<2	5.2	NS-FP	<2	NS-FP	NS-FP	3.2	312	NS-NW	<2	<2	<2	NA				
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	27.8	NS-FP	290	<2	<2	<4	2.2	NS-FP	<2	NS-FP	NS-FP	<2	NS-NW	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW				
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	321	14.4	NS-FP	158	<5	<2	<2	<2	50	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	3,900				
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	302	<20	1,410	117	<2	<2	<2	<40	<100	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	6,200				
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	527	<20	1,040	<200	<2	2.3	<4	<2	49.2	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	3,980				
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	71.1	<20	2,570	<200	<2	<2	<4	<2	83.2	<2	NS-FP	NS-FP	2.2	NS-FP	NS-NW	16.3 SM	5.2 SM	<2 SM	4,710				
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<400	<40	420J	<400	<2	<2	<2	<4	50.0J	<2	NS-FP	NS-FP	3.2J	NS-FP	<40	<2 SM	<2 SM	NA	3,890				
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<100	<200	<2	<2	<4	<10	12.4J	<2	NS-FP	NS-FP	<2	564	<20	<2 SM	4.1 SM	<2 SM	4,170				
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	122J	<500	<2	<2	<4	<20	72.0J	<2	126J	NS-FP	<2	290	<20	<2 SM	8.8 SM	<2 SM	1,740				
	Dec-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<200	<400	<2	<2	<4	<4	63.8J	<2	NS-FP	NS-FP	<2	330	NS-NW	<2 SM	7.5 SM	<2 SM	NS-NW				
	Mar-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	79.5J	ND	ND	ND	ND	ND	ND	94.8J	ND	720	NS-FP	ND	132	ND	ND	ND	ND	3,250			
	Jun-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,950			
	Sep-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS-NW			
	Dec-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	62.2	NS-NW	ND	ND	ND	ND	NS-NW		
	Mar-08	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70.4	NS-NW	ND	ND	ND	ND	ND	2,140	
Trichloroethylene (TCE)	Feb-94	7,160	3,040	1,730	14,300	1,320	45																							
	Nov-00	<2,500	<500	1,500	NS-FP	NS-FP	<500																							
	Oct-01	<100	<20	100	NS-NW	Table 2	<10																							
	Feb-02	20	2.5	260	NS-FP	NS-FP	6.8																							
	Jun-02	<250	<500	134	NS-FP	NS-FP	<25	NS-FP	<100																					
	Oct-02	<200	<20	28	NS-FP	NS-FP	<100	NS-FP	56.6																					
	Dec-02	NA	<100	<100	NS-FP	NS-FP	<50	NS-FP	50.4	<1,000	<50	<10	77.2	<50	<20	274	3	946	1,740	2.9	55									

Table 4 (cont.): Detected VOCs from Groundwater Sample Results using EPA Method 8260 ($\mu\text{g/L}$)

VOCs	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26				
1,2,4-Trimethylbenzene	Oct-01	1,590	18.9	345	NS-NW	Table 2	200																							
	Feb-02	2,800	231	668	NS-FP	NS-FP	234																							
	Jun-02	3,850	<500	618	NS-FP	NS-FP	238	NS-FP	<100																					
	Oct-02	2,120	116	299	NS-FP	NS-FP	327	NS-FP	<25																					
	Dec-02	NA	232	356	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	2,120	1,640	<5	270	<50	<250	<5	1,880	2,500	<5	<25									
	Mar-03	NA	380	441	NS-FP	NS-FP	225	NS-FP	<25	1,590	2,950	703	<5	30	<50	238	238	2,490	4,660	<5	<25									
	Jun-03	NA	<200	378	NS-FP	NS-FP	152	NS-FP	<20	1,740	1,400	20	<2	<2	<5	<50	<2	2,070	8,090	19.5	18.5	<20	<2	<2	<2	<100				
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	1,430	1,830	110	<2	<2	<4	<50	<2	1,680	NS-FP	<2	20.5	NS-NW	<2	<2	<2	555				
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	1,640	1,582	498	<2	<4	<5	NS-FP	<2	1,810	NS-FP	33.1	<40	NS-NW	Table 5	Table 5	Table 5	NS-NW				
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	Table 2	2,060	1,200	<2	<2	15	NS-FP	<2	Table 2	Table 2	<2	30	6.6	Table 5	Table 5	Table 5	1,140				
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<4	NS-FP	1,410	555	<2	<2	<2	NS-FP	<2	NS-FP	NS-FP	<2	2	NS-NW	<2	<2	<2	832				
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	925	769	<2	<2	3.1	NS-FP	<2	NS-FP	NS-FP	<2	151	NS-NW	<2	<2	<2	NA				
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	2,910	473	<2	<4	<2	NS-FP	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW				
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	2,420	<5	NS-FP	1,540	211	<2	<2	<2	3,250	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	984				
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	2,760	<20	6,840	1,720	143	<2	<2	<40	2,210	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	1,180				
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	2,850	43.4	2,510	2,750	78.6	<2	74.5	<2	2,120	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	332				
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	4,200	<20	2,680	2,240	49.6	<2	<2	5.7	1,450	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	594				
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	2,600	<40	2,140	1,030	12.4	<2	<2	1.2J	968	<2	NS-FP	NS-FP	<2	NS-FP	<100	<2 SM	<2 SM	<2 SM	NA	492J			
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	1,710	<20	2,760	974	4.1J	<2	<4	<10	795	<2	NS-FP	NS-FP	<2	5,510	<20	<2 SM	<2 SM	<2 SM	741				
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	1,510	<20	2,410	6,600	<2	<2	<4	<20	1,120	<2	13,300	NS-FP	<2	2,030	<20	<2 SM	<2 SM	<2 SM	345J				
	Dec-06	NA	NA	NA	NS-NW	NS-NW	NA	1,540	<20	2,510	1,170	<2	<2	<4	<4	<40	<2	NS-FP	NS-FP	<2	<100	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW				
	Mar-07	NA	NA	NA	NS-NW	NS-NW	NA	108	ND	2,130	1,520	ND	ND	ND	48.7J	609	ND	6,580	NS-FP	ND	80.0J	ND	ND	ND	ND	ND	ND	436		
	Jun-07	NA	NA	NA	NS-NW	NS-NW	NA	277	ND	1,480	986	ND	ND	ND	47.2	451	ND	4,360	NS-FP	ND	ND	ND	ND	ND	ND	ND	208			
	Sep-07	NA	NA	NA	NS-NW	NS-NW	NA	166	ND	1,530	1,280	ND	ND	ND	39.5	547	ND	3,810	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	NS-NW			
	Dec-07	NA	NA	NA	NS-NW	NS-NW	NA	ND	ND	1,420	1,290	ND	ND	ND	6.5	406	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	NS-NW			
	Mar-08	NA	NA	NA	NS-NW	NS-NW	NA	204	ND	1,550	1,640	ND	ND	ND	ND	423	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	347			
1,3,5-Trimethylbenzene	Oct-01	470	62.9	145	NS-NW	Table 2	25																							
	Feb-02	955	57.8	126	NS-FP	NS-FP	45.6																							
	Jun-02	1,170	57.5	<125	NS-FP	NS-FP	<25	NS-FP	<100																					
	Oct-02	574	67.8	57.8	NS-FP	NS-FP	<250	NS-FP	<25																					
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	675	765	<5	106	<50	<250	<5	528	<2,500	<5	<25									
	Mar-03	NA	<1,000	<500	NS-FP	NS-FP	30	NS-FP	<25	404	903	411	<5	<125	<50	<125	<5	635	845	<5	<25									
	Jun-03	NA	<200	<400	NS-FP	NS-FP	<50	NS-FP	<20	398	440	19	<2	<2	<5	<50	<2	506	1,530	<5	<2	<20	<2	<2	<2	<10				

Table 4 (cont.): Detected VOCs from Groundwater Sample Results using EPA Method 8260 ($\mu\text{g/L}$)

VOCs	Date	MW-1^t	MW-2^t	MW-3^t	MW-4	MW-6	MW-7^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26		
Toluene	Feb-94	560	7,390	579	12,700	15,300	398																					
	Nov-00	4,000	57	3,700	NS-FP	NS-FP	800																					
	Oct-01	2,470	26	5,150	NS-NW	Table 2	975																					
	Feb-02	4,880	26.2	4,520	NS-FP	NS-FP	1,330																					
	Jun-02	6,180	102	4,780	NS-FP	NS-FP	1,280	NS-FP	<20																			
	Oct-02	5,390	39	4,810	NS-FP	NS-FP	2,560	NS-FP	<5																			
	Dec-02	NA	158	5,770	NS-FP	NS-FP	541	NS-FP	<5	19,600	1,230	29.5	1.2	2,840	14.4	<50	<1	1,730	13,500	3.3	6.7							
	Mar-03	NA	<200	2,310	NS-FP	NS-FP	938	NS-FP	<5	12,000	3,830	14.5	<1	230	<10	<25	<1	4,970	11,600	<1	<5							
	Jun-03	NA	<100	2,080	NS-FP	NS-FP	724	NS-FP	<10	10,900	4,620	<5	<1	<1	<2.5	<25	<1	5,510	13,300	7.2	<1	<10	<1	<1	<1	<50		
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<10	13,800	4,030	<2.5	<1	<1	2	<25	<1	3,700	NS-FP	<1	10	NS-NW	<1	<1	<1	10,500		
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<1	13,300	6,570	9.7	<1	<2	3.2	NS-FP	<1	2,350	NS-FP	14.6	<1	NS-NW	Table 5	Table 5	Table 5	NS-NW		
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	Table 2	6,050	<2.5	<1	<1	54.8	NS-FP	<1	Table 2	Table 2	<1	17.5	16.4	Table 5	Table 5	Table 5	15,200		
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	NS-FP	9,000	3.6	<1	<1	43.3	NS-FP	<1	NS-FP	NS-FP	<1	1.7	NS-NW	<1	<1	<1	14,500		
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	NS-FP	16,200	1.5	<1	<1	101	NS-FP	<1	NS-FP	NS-FP	<1	94	NS-NW	<1	<1	<1	NA		
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	NS-FP	16,300	<1	<1	<2	33.5	NS-FP	<1	NS-FP	NS-FP	<1	NS-FP	NS-NW	<1	SM	<1	SM	NS-NW	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	6,170	4.8	NS-FP	6,580	<2.5	<1	<1	42.2	62.5	<1	NS-FP	NS-FP	<1	NS-FP	22.8	<1	SM	<1	SM	16,900	
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	4,510	<10	12,800	7,830	<1	<1	<1	180	149	<1	NS-FP	NS-FP	<1	NS-FP	22.8	<1	SM	<1	SM	14,200	
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	4,290	40.8	11,900	10,700	<1	<1	<1	204	27.5	29.4	<1	NS-FP	NS-FP	<1	NS-FP	34.2	<1	SM	<1	SM	15,400
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	4,080	<20	15,000	7,400	<1	<1	<2	54.5	<20	<1	NS-FP	NS-FP	1.7	NS-FP	NS-NW	<1	SM	<1	SM	16,400	
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	3,740	<20	11,200	4,400	<1	<1	<1	7.4	<20	<1	NS-FP	NS-FP	<1	NS-FP	<20	<1	SM	<1	SM	NA	
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	350	<10	10,500	4,810	<1	<1	<2	79.3	<20	<1	NS-FP	NS-FP	<1	305	<10	<1	SM	<1	SM	17,600	
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	67	<10	10,400*	6,360	<1	<1	<2	81.3	<20	<1	3,970	NS-FP	<1	177	<10	<1	SM	<1	SM	8,360	
	Dec-06	NA	NA	NA	NS-NW	NS-NW	NA	153	<10	9,500	5,040	<1	<1	<1	1.4J	165	<20	<1	NS-FP	NS-FP	<1	141	NS-NW	<1	SM	<1	SM	NS-NW
	Mar-07	NA	NA	NA	NS-NW	NS-NW	NA	43.2	ND	9,510	5,720	ND	ND	4.4JND	1,760	27.4	ND	9720	NS-FP	ND	9670							
	Jun-07	NA	NA	NA	NS-NW	NS-NW	NA	80	ND	5,910	5,730	ND	ND	ND	1,430	34	ND	11,500	NS-FP	ND	7,590							
	Sep-07	NA	NA	NA	NS-NW	NS-NW	NA	112	ND	5,990	4,260	ND	ND	ND	520	ND	ND	7,600	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	NS-NW	
	Dec-07	NA	NA	NA	NS-NW	NS-NW	NA	100	ND	2,910	4,390	ND	ND	ND	6	ND	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	NS-NW	
	Mar-08	NA	NA	NA	NS-NW	NS-NW	NA	233	ND	5,460	4,090	ND	ND	ND	1	ND	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND	5,860	
Vinyl Chloride	Oct-01	1,350	75	<5	NS-NW	Table 2	188																					
	Feb-02	1,060	197	896	NS-FP	NS-FP	517																					
	Jun-02	<100	<200	<50	NS-FP	NS-FP	<10	NS-FP	<40																			
	Oct-02	2,860	2,710	12,200	NS-FP	NS-FP	684	NS-FP	123																			
	Dec-02	NA	2,720	12,700	NS-FP	NS-FP	423	NS-FP	107	4,100	198	1,100	6.2	<50	93.1	555	<2	<200	<1,000	<2	28.1							
	Mar-03	NA	1,640	7,870	NS-FP	NS-FP	200	NS-FP	92	3,690	1,180	66.6	2.6	<50	77.8	387	<2	<1,000	630	<2	22.6							
</																												

Table 4 (cont.): Detected VOCs from Groundwater Sample Results using EPA Method 8260 ($\mu\text{g}/\text{L}$)		MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	M	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26		
Xylenes		Feb-94	2,192	7,790	1,014	4,362	4,710	186																				
Nov-00		3,400	<500	2,500	NS-FP	NS-FP	247																					
Oct-01		2,770	<2	3,720	NS-NW	Table 2	301																					
Feb-02		3,760	14.8	3,070	NS-FP	NS-FP	280																					
Jun-02		5,240	152	3,690	NS-FP	NS-FP	354	NS-FP	<20																			
Oct-02		3,570	73	2,570	NS-FP	NS-FP	576	NS-FP	<5																			
Dec-02		NA	355	2,900	NS-FP	NS-FP	121	NS-FP	<5	4,690	748	242	<1	1,760	<10	<50	<1	2,690	3,940	<1	<5							
Mar-03		NA	316	2,100	NS-FP	NS-FP	318	NS-FP	<10	2,330	1620	28.1	<2	100	<20	<50	<2	4,200	4,960	<2	8.4							
Jun-03		NA	170	1,760	NS-FP	NS-FP	238	NS-FP	<10	4,590	1,560	<5	<1	<1	<2.5	<25	<1	3,650	6,040	8.3	<1	<10	<1	<1	<1	1,050		
Sep-03		NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<10	4,460	1,320	9	<1	<1	<2	<25	<1	2,620	NS-FP	<1	93	NS-NW	<1	<1	<1	6,870		
Dec-03		NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<1	4,590	2,020	157	<1	<2	<2.5	NS-FP	<1	2,610	NS-FP	22	91.9	NS-NW	Table 5	Table 5	Table 5	NS-NW		
Mar-04		NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	Table 2	2,170	231	<1	<1	27.3	NS-FP	<1	Table 2	Table 2	<1	175	8.8	Table 5	Table 5	Table 5	9,320		
Jun-04		NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	NS-FP	1,930	18.9	<1	<1	9.8	NS-FP	<1	NS-FP	NS-FP	<1	5.3	NS-NW	<1	<1	<1	8,320		
Sep-04		NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	NS-FP	3,200	150	<1	<1	22.1	NS-FP	<1	NS-FP	NS-FP	<1	200	NS-NW	<1	<1	<1	NA		
Dec-04		NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	NS-FP	4,310	2.5	<1	<2	3.5	NS-FP	<1	NS-FP	NS-FP	<1	NS-FP	NS-NW	<1 SM	<1 SM	<1 SM	NS-NW		
Mar-05		NA	NA	NA	NS-NW	NS-NW	NA	4,590	5.5	NS-FP	2,420	53.2	<1	<1	10	544	<1	NS-FP	NS-FP	<1	NS-FP	<20	<1 SM	<1 SM	<1 SM	9,530		
Jun-05		NA	NA	NA	NS-NW	NS-NW	NA	4,850	<20	7,600	2,890	35.6	<2	<2	24	297	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	11,800		
Sep-05		NA	NA	NA	NS-NW	NS-NW	NA	5,810	45.7	4,290	4,150	17.5	<2	277	5.8	126	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	5,550		
Dec-05		NA	NA	NA	NS-NW	NS-NW	NA	5,690	<20	6,490	4,470	8.4	<2	<4	30.8	90.2	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	6,070		
Mar-06		NA	NA	NA	NS-NW	NS-NW	NA	4,690	<40	6,080	2,220	<2	<2	<2	3.2J	157	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	NA	5,970		
Jun-06		NA	NA	NA	NS-NW	NS-NW	NA	873	<20	6,220	1,450	<2	<2	<4	22.1	56.8	<2	NS-FP	NS-FP	<2	2,800	<20	<2 SM	<2 SM	<2 SM	9,110		
Sep-06		NA	NA	NA	NS-NW	NS-NW	NA	511	<20	5,610	3,180	<2	<2	<4	33.5	91.2	<2	10,100	NS-FP	<2	1,560	<20	<2 SM	<2 SM	<2 SM	4,240		
Dec-06		NA	NA	NA	NS-NW	NS-NW	NA	550	<20	5,810	2,600	<2	<2	<4	41.9	42	<2	NS-FP	NS-FP	<2	2,120	NS-NW	ND	ND	ND	NS-NW		
Mar-07		NA	NA	NA	NS-NW	NS-NW	NA	117	ND	5,320	2,350	ND	ND	ND	388	44.2	ND	6220	NS-FP	ND	95	ND	ND	ND	ND	4080		
Jun-07		NA	NA	NA	NS-NW	NS-NW	NA	164	ND	3,300	1,730	ND	ND	ND	345	48	ND	11,100	NS-FP	ND	64.5	ND	ND	ND	ND	2,750		
Sep-07		NA	NA	NA	NS-NW	NS-NW	NA	178	ND	3,960	2,640	ND	ND	ND	214	27.5	ND	6,930	NS-FP	ND	59.6	NS-NW	ND	ND	ND	NS-NW		
Dec-07		NA	NA	NA	NS-NW	NS-NW	NA	111	ND	3,520	2,710	ND	ND	ND	5.3	48	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	NS-NW		
Mar-08		NA	NA	NA	NS-NW	NS-NW	NA	173	ND	4,020	3,110	ND	ND	ND	ND	ND	ND	NS-FP	NS-FP	ND	ND	NS-NW	ND	ND	ND	ND		

NA= Not Analyzed. ^t = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).

NS-FP= Not Sampled Free Product present. NS-NW= Not Sampled Not Enough Water present. Blue= Chemicals stored on-site. Red= Transformation compounds.

Table 5: Detected VOCs from Diffusion Bag Groundwater Samples using EPA Method 8260 (µg/L)

	<u>Date</u>	<u>Depth</u>	<u>MW-23</u>	<u>MW-24</u>	<u>MW-25</u>
Screened Interval (feet bg)			71-81	67-77	71-81
DTW (ft)	15-Dec-03		42.65	45.69	47.35
	30-Mar-04		43.25	46.41	48.03
VOCs					
Acetone	15-Dec-03	1.5'	<25	<25	<25
	15-Dec-03	7.5'	<25	<25	<25
	30-Mar-04	2.5'	<25	<25	<25
	30-Mar-04	7.5'	<25	<25	<25
Benzene	15-Dec-03	1.5'	<1	<1	<1
	15-Dec-03	7.5'	<1	<1	<1
	30-Mar-04	2.5'	<1	<1	<1
	30-Mar-04	7.5'	<1	<1	<1
2-Butanone (MEK)	15-Dec-03	1.5'	<25	<25	<25
	15-Dec-03	7.5'	<25	<25	<25
	30-Mar-04	2.5'	<25	<25	<25
	30-Mar-04	7.5'	<25	<25	<25
Chloroethane	15-Dec-03	1.5'	<2	<2	<2
	15-Dec-03	7.5'	<2	<2	<2
	30-Mar-04	2.5'	<2	<2	<2
	30-Mar-04	7.5'	<2	<2	<2
1,1-Dichloroethane	15-Dec-03	1.5'	<2	<2	<2
	15-Dec-03	7.5'	<2	<2	<2
	30-Mar-04	2.5'	<2	<2	<2
	30-Mar-04	7.5'	<2	<2	<2
1,2-Dichloroethane	15-Dec-03	1.5'	<2	<2	<2
	15-Dec-03	7.5'	<2	<2	<2
	30-Mar-04	2.5'	<2	<2	<2
	30-Mar-04	7.5'	<2	<2	<2
1,1-Dichloroethene	15-Dec-03	1.5'	6	14.6	7.4
	15-Dec-03	7.5'	6.1	<2	6.2
	30-Mar-04	2.5'	4.4	7.6	7.4
	30-Mar-04	7.5'	4.2	6.6	6.2
cis 1,2-Dichloroethene	15-Dec-03	1.5'	2.4	8.8	3.4
	15-Dec-03	7.5'	<2	5.7	<2
	30-Mar-04	2.5'	<2	11.7	<2
	30-Mar-04	7.5'	<2	11.3	<2

Table 5: Detected VOCs from Diffusion Bag Groundwater Samples using EPA Method 8260 (µg/L)

VOCs	Date	Depth	MW-23	MW-24	MW-25
trans 1,2-Dichloroethene	15-Dec-03	1.5'	<2	<2	<2
	15-Dec-03	7.5'	<2	<2	<2
	30-Mar-04	2.5'	<2	<2	<2
	30-Mar-04	7.5'	<2	<2	<2
1,4 Dioxane	15-Dec-03	1.5'	<50	<50	<50
	15-Dec-03	7.5'	<50	<50	<50
	30-Mar-04	2.5'	<50	<50	<50
	30-Mar-04	7.5'	<50	<50	<50
Ethylbenzene	15-Dec-03	1.5'	<1	<1	<1
	15-Dec-03	7.5'	<1	<1	<1
	30-Mar-04	2.5'	<1	<1	<1
	30-Mar-04	7.5'	<1	<1	<1
Methylene Chloride	15-Dec-03	1.5'	<2	<2	<2
	15-Dec-03	7.5'	<2	<2	<2
	30-Mar-04	2.5'	<2	<2	<2
	30-Mar-04	7.5'	<2	<2	<2
4-Methyl-2-pentanone	15-Dec-03	1.5'	<25	<25	<25
	15-Dec-03	7.5'	<25	<25	<25
	30-Mar-04	2.5'	<25	<25	<25
	30-Mar-04	7.5'	<25	<25	<25
Naphthalene	15-Dec-03	1.5'	<2	<2	<2
	15-Dec-03	7.5'	<2	<2	<2
	30-Mar-04	2.5'	<2	<2	<2
	30-Mar-04	7.5'	<2	<2	<2
n-Propylbenzene	15-Dec-03	1.5'	<2	<2	<2
	15-Dec-03	7.5'	<2	<2	<2
	30-Mar-04	2.5'	<2	<2	<2
	30-Mar-04	7.5'	<2	<2	<2
Tetrachloroethene	15-Dec-03	1.5'	30.6	75.4	37.1
	15-Dec-03	7.5'	14.8	24.3	37.2
	30-Mar-04	2.5'	38.2	225	30.3
	30-Mar-04	7.5'	37.7	263	24.9

Table 5: Detected VOCs from Diffusion Bag Groundwater Samples using EPA Method 8260 (µg/L)

VOCs	Date	Depth	MW-23	MW-24	MW-25
1,1,1-Trichloroethane	15-Dec-03	1.5'	3.2	2.3	<2
	15-Dec-03	7.5'	2.6	<2	<2
	30-Mar-04	2.5'	<2	<2	<2
	30-Mar-04	7.5'	<2	<2	<2
Trichloroethene	15-Dec-03	1.5'	11.3	51.4	38.5
	15-Dec-03	7.5'	7.9	49.3	39.4
	30-Mar-04	2.5'	14.2	74.5	34.9
	30-Mar-04	7.5'	14.7	67.1	18.6
1,2,4-Trimethylbenzene	15-Dec-03	1.5'	<2	<2	<2
	15-Dec-03	7.5'	<2	<2	<2
	30-Mar-04	2.5'	<2	<2	<2
	30-Mar-04	7.5'	<2	<2	<2
1,3,5-Trimethylbenzene	15-Dec-03	1.5'	<2	<2	<2
	15-Dec-03	7.5'	<2	<2	<2
	30-Mar-04	2.5'	<2	<2	<2
	30-Mar-04	7.5'	<2	<2	<2
Toluene	15-Dec-03	1.5'	<1	<1	<1
	15-Dec-03	7.5'	<1	<1	<1
	30-Mar-04	2.5'	<1	<1	<1
	30-Mar-04	7.5'	<1	<1	<1
Vinyl Chloride	15-Dec-03	1.5'	<2	<2	<2
	15-Dec-03	7.5'	<2	<2	<2
	30-Mar-04	2.5'	<2	<2	<2
	30-Mar-04	7.5'	<2	<2	<2
Xylenes	15-Dec-03	1.5'	<1	<1	<1
	15-Dec-03	7.5'	<1	<1	<1
	30-Mar-04	2.5'	<1	<1	<1
	30-Mar-04	7.5'	<1	<1	<1
DTW= Depth to Water.					
Depth= Depth above well bottom.					
Blue= Chemicals stored on-site.					
Red= Transformation compounds.					

Table 6. Results for EPA Methods 376.1, 325.3, 310.1, 352.1, 375.4, 7380, 7466, 160.1, Colorimetry and Standard Method 4500 (mg/L)

Table 6. (Continued) Results for EPA Methods 376.1, 325.3, 310.1, 352.1, 375.4, 7380, 7460, 160.1, Colorimetry and Standard Method 4500 (mg/L)												
Compound	Date	First Water Wells					Upper A1 Zone Wells					
		MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-17	MW-20	MW-21
Chloride	Jun-03	241		425	70.9	101	92.2	95	96.4	87.9	87.9	
	Sep-03	241		383	57	99	142	106	170	92	142	
	Dec-03	238		344	74.4	106	160	113	106	99.3	135	
	Mar-04	221		441	76.2	92.6	92.6	104	95.3	123	158	
	Jun-04	198		332	78	119	122	102	106	109	116	
	Sep-04	132		334	54.5	123	197	129	102	91.9	129	
	Dec-04	152		158	54.5	103	98	113	98	112	NS-FP	
	Mar-05	253		384	54.5	92.6	123	169	264	215	NS-FP	
	Jun-05	284		287	35.5	115	135	156	121	70.9	NS-FP	
	Sep-05	269		99.3	45.4	96.4	128	121	122	106	NS-FP	
	Dec-05	125	294	65.3	98	45.6	65.3	NA	144	125	114	NS-FP
	Mar-06	114	NA	NA	NA	54.5	103	117	120	120	123	NS-FP
	Jun-06	542	NA	587	120	59.8	92.6	120	177	19.1	117	NA
	Sep-06	788	277	156	135	49.6	38.1	164	163	51.7	120	NA
	Dec-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sulfide	Jun-03	<0.02		3.68	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
	Sep-03	<0.05		2.56	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
	Dec-03	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
	Mar-04	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
	Jun-04	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
	Sep-04	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
	Dec-04	<0.02		0.16	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
	Mar-05	<0.05		0.96	<0.05	<0.05	<0.05	0.48	<0.05	<0.05	<0.05	
	Jun-05	<0.02		0.64	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NS-FP	
	Sep-05	<0.03		1.12	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	NS-FP	
	Dec-05	0.48	<0.05	<0.05	0.16	<0.05	<0.05	NA	<0.05	<0.05	<0.05	
	Mar-06	<0.05	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
	Jun-06	16.3	NA	3.52	0.64	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
	Sep-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sulfate	Jun-03	264		7.9	108	214	182	279	206	176	182	
	Sep-03	250		26	85	230	202	285	215	215	230	
	Dec-03	783		16	47	533	399	287	387	501	287	
	Mar-04	595		<1	27.6	262	<1	<1	335	250	<1	
	Jun-04	707		3.49	42	143	603	735	164	81.4	518	
	Sep-04	490		<1	36.5	114	278	95	319	367	192	
	Dec-04	454		<1	28.1	162	112	140	120	195	NS-FP	
	Mar-05	141		<1	32.2	84.4	121	40.4	110	36.6	NS-FP	
	Jun-05	177		<1	68.9	133	170	101	137	83.8	NS-FP	
	Sep-05	119		<1	48.7	84.7	83.9	85.8	71.8	69.1	NS-FP	
	Dec-05	4.82	224	11.4	<1	76.6	98.8	NA	37	76.2	64.4	
	Mar-06	2.2	NA	NA	NA	334	764	439	608	732	546	
	Jun-06	727	614	0.43	77.9	351	601	443	36.1	80.8	722	
	Sep-06	1060	426	4.08	47.4	449	119	500	105	113	429	
	Dec-06	1,080	584	9.81	27.6	377	406	446	117	734	529	
Nitrate	Jun-03	16.4		8.81	<0.01	27.8	25.1	29.7	27.8	24.2	23.8	
	Sep-03	0.138		<0.01	<0.01	0.027	0.012	0.029	<0.01	0.17	0.019	
	Dec-03	25.5		3.96	1.16	17.4	20.9	25.2	20.1	21.4	22.8	
	Mar-04	22.5		12.7	0.46	19.6	24.1	17.1	18	28.7	20	
	Jun-04	29		8.18	1.24	18	27	32	28.7	25.6	24	
	Sep-04	30.8		8.78	2.81	27.6	20.3	27	23.2	22.1	8.47	
	Dec-04	12.7		5.05	2.97	14.2	21.6	20.4	17.8	16.2	NS-FP	
	Mar-05	11.6		9.57	<0.01	11.9	17.7	19.2	11.9	20.6	NS-FP	
	Jun-05	7.8		4.9	3.1	16.1	18.6	11.8	15.7	18.5	NS-FP	
	Sep-05	5.2		8.96	2.8	21.6	22.2	18.3	14.9	21.8	NS-FP	
	Dec-05	10.8	16.3	4.11	8.2	6.7	12.2	NA	6.86	13.9	17.6	
	Mar-06	3.56	NA	NA	NA	16	22.5	21.1	25	33.6	36.3	
	Jun-06	13.3	22	6.01	12.6	30.3	22.1	30	13.3	13.1	21.7	
	Sep-06	21.5	10	2.83	15.1	18.4	13.5	24.7	16.3	12.7	16.1	
	Dec-06	7.44	4.72	3.71	5.73	13.4	9.6	17.2	17.6	16.1	16.7	

Table 6. (Continued) Results for EPA Methods 376.1, 325.3, 310.1, 352.1, 375.4, 7380, 7460, 160.1, Colorimetry and Standard Method 4500 (mg/L)												
Compound	Date	First Water Wells						Upper A1 Zone Wells				
		MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-17	MW-20	MW-21
Total Iron	Jun-03	<0.1		10.7	0.16	0.14	<0.1	0.2	0.43	0.22	<0.1	
	Sep-03	<0.05		18.7	0.41	<0.05	<0.05	<0.05	0.26	<0.05	<0.05	
	Dec-03	0.36		30.6	3.65	0.19	0.14	0.38	0.36	0.24	1.2	
	Mar-04	0.15		10.5	4.14	<0.1	<0.1	<0.1	<0.1	0.62	<0.1	
	Jun-04	<0.1		5.6	<0.1	0.12	0.2	0.2	0.15	<0.1	0.2	
	Sep-04	0.12		5.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	
	Dec-04	<0.1		1.65	0.36	0.45	0.4	0.25	0.17	0.13	NS-FP	
	Mar-05	<0.1		1.87	0.25	<0.1	<0.1	0.11	<0.1	<0.1	NS-FP	
	Jun-05	<0.1		0.68	0.17	0.16	<0.1	0.1	<0.1	<0.1	NS-FP	
	Sep-05	<0.1		7.5	1.4	<0.1	<0.1	0.3	<0.1	<0.1	NS-FP	
	Dec-05	0.11	<0.1	0.59	0.61	<0.1	NA	<0.1	<0.1	<0.1	NS-FP	
	Mar-06	6.01	NA	NA	NA	1.05	<0.1	<0.1	<0.1	<0.1	NS-FP	
	Jun-06	77.1	2	9	8.33	0.55	0.74	0.67	0.91	0.58	0.73	NA
	Sep-06	18.4	1	1.2	2.66	0.32	0.16	0.33	1.15	0.15	2.9	NS-FP
	Dec-06	0.61	0.13	7.98	12.5	0.56	<0.1	0.13	0.3	0.23	0.5	NA
Ferrous Iron	Jun-03	<0.05		0.49	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
	Sep-03	<0.05		9.98	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
	Dec-03	0.15		2.32	0.73	0.16	0.21	0.21	0.22	0.14	0.17	
	Mar-04	<0.05		2.62	2.25	<0.05	0.31	0.57	<0.05	0.1	0.86	
	Jun-04	<0.05		2.42	0.15	<0.05	0.24	0.17	<0.05	<0.05	0.48	
	Sep-04	<0.05		1.46	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
	Dec-04	<0.05		<0.05	0.11	0.19	0.08	0.23	0.07	<0.05	NS-FP	
	Mar-05	<0.05		<0.05	0.25	<0.05	<0.05	0.13	<0.05	<0.05	NS-FP	
	Jun-05	<0.05		0.42	<0.05	0.18	<0.05	<0.05	<0.05	<0.05	NS-FP	
	Sep-05	<0.05		0.42	0.14	0.1	0.1	0.07	0.07	0.09	NS-FP	
	Dec-05	<0.05	<0.05	<0.05	0.1	<0.05	<0.05	NA	<0.05	<0.05	<0.05	NS-FP
	Mar-06	1.1	NA	NA	NA	0.53	<0.05	<0.05	<0.05	<0.05	<0.05	NS-FP
	Jun-06	2.83	0.23	0.12	0.4	0.15	<0.05	<0.05	<0.05	0.13	0.23	NA
	Sep-06	1.24	0.13	0.06	0.28	0.24	<0.05	<0.05	0.29	0.2	0.18	NS-FP
	Dec-06	0.6	0.07	0.13	0.34	0.16	<0.05	<0.05	0.12	<0.05	0.07	NA
Manganese	Jun-03	<0.1		6.7	1.6	<0.1	<0.1	0.4	<0.1	<0.1	0.43	
	Sep-03	0.07		12.5	2.49	0.66	0.42	0.4	<0.05	0.12	0.64	
	Dec-03	0.15		13.5	1.47	0.22	1.02	1.14	0.23	0.12	1.96	
	Mar-04	0.11		4.71	1.12	0.13	0.15	1.11	0.09	0.14	1.78	
	Jun-04	0.2		6.6	0.9	<0.05	0.2	0.4	<0.05	<0.05	0.1	
	Sep-04	0.54		9.04	1.12	0.12	0.37	1.49	0.08	0.09	1.79	
	Dec-04	0.12		5.19	1.25	<0.05	0.09	0.76	<0.05	<0.05	NS-FP	
	Mar-05	0.49		15	2.52	<0.05	<0.05	3.19	<0.05	0.33	NS-FP	
	Jun-05	0.35		8.85	2.55	0.1	<0.05	3.32	<0.05	0.16	NS-FP	
	Sep-05	0.4		7.94	3.36	0.16	0.37	0.74	0.06	0.3	NS-FP	
	Dec-05	2.07	0.23	2.49	6.05	2.62	0.25	NA	0.2	<0.05	0.4	NS-FP
	Mar-06	2.89	NA	NA	NA	2.39	<0.05	0.06	0.44	<0.05	0.05	NS-FP
	Jun-06	29	2.36	4.84	8.46	3	0.58	0.15	2.75	0.07	0.64	NA
	Sep-06	12.9	1.06	4.6	7.14	3.48	0.31	0.3	0.99	0.18	2.02	NS-FP
	Dec-06	5.41	0.41	4.4	9.14	2.63	0.36	0.15	0.37	0.06	0.4	NA
Ethylene	Mar-04	22.7		1,001	176	<5	255	<5	<5	<5	1,080	
	Jun-04	28.5		2,120	174	<5	<5	15.5	<5	<5	<5	
	Sep-04	30		4,620	46	<5	<5	<5	<5	<5	49	
	Dec-04	10.5		2,580	27	<5	<5	25.5	<5	<5	NS-FP	
	Mar-05	32		2,011	5	<5	<5	31.5	<5	<5	NS-FP	
	Jun-05	<5		7430	33	<5	<5	313	<5	<5	NS-FP	
	Sep-05	<5		916	<5	<5	<5	34	<5	<5	NS-FP	
	Dec-05	804	46	193	1,803	<5	<5	NA	<5	<5	<5	NS-FP
	Mar-06	151	NA	NA	NA	<5	<5	<5	<5	<5	<5	NS-FP
	Jun-06	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA
	Sep-06	21.8	167	675	1,760	<5	6.6	9.9	288	9.4	64.1	NA
	Dec-06	299	545	615	2,380	<5	<5	<5	598	<5	<5	NA

Table 7: Dissolved Metal Sample Results (mg/L)

Dissolved Metals	EPA Method	Date	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-8	MW-9	MCLs
Antimony	7040	Oct-01	<0.5	<0.5	<0.5	NS-FP	NS-FP	<0.5			0.006
		Feb-02	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1			
		Jun-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
		Oct-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
Arsenic	7060	Oct-01	0.026	0.061	<0.005	NS-FP	NS-FP	0.071			0.05
		Feb-02	0.068	0.044	0.006	NS-FP	NS-FP	0.113			
		Jun-02	0.064	0.046	<0.005	NS-FP	NS-FP	0.145	NS-FP	<0.005	
		Oct-02	0.015	0.038	<0.005	NS-FP	NS-FP	0.078	NS-FP	<0.005	
Barium	7080	Oct-01	<0.5	<0.5	<0.5	NS-FP	NS-FP	<0.5			1
		Feb-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005			
		Jun-02	0.8	0.88	0.51	NS-FP	NS-FP	0.68	NS-FP	0.66	
		Oct-02	0.984	0.962	0.91	NS-FP	NS-FP	0.897	NS-FP	0.683	
Beryllium	7090	Oct-01	<0.05	<0.05	<0.05	NS-FP	NS-FP	<0.05			0.004
		Feb-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005			
		Jun-02	<0.002	<0.002	<0.002	NS-FP	NS-FP	<0.002	NS-FP	<0.002	
		Oct-02	<0.002	<0.002	<0.002	NS-FP	NS-FP	<0.002	NS-FP	<0.002	
Cadmium	7130	Oct-01	<0.05	<0.05	<0.05	NS-FP	NS-FP	<0.05			0.005
		Feb-02	<0.04	<0.04	<0.04	NS-FP	NS-FP	<0.04			
		Jun-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
		Oct-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
Chromium	7190	Oct-01	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1			0.05
		Feb-02	<0.02	<0.02	<0.02	NS-FP	NS-FP	<0.02			
		Jun-02	0.015	0.016	0.016	NS-FP	NS-FP	0.017	NS-FP	0.019	
		Oct-02	0.0188	0.0185	0.02	NS-FP	NS-FP	0.021	NS-FP	0.024	
Cobalt	7200	Oct-01	<0.1	0.12	<0.1	NS-FP	NS-FP	<0.1			None
		Feb-02	<0.04	<0.04	<0.04	NS-FP	NS-FP	<0.04			
		Jun-02	0.23	0.2	0.18	NS-FP	NS-FP	0.11	NS-FP	0.18	
		Oct-02	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1	NS-FP	<0.1	
Copper	7210	Oct-01	<0.05	<0.05	<0.05	NS-FP	NS-FP	<0.05			1.3
		Feb-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005			
		Jun-02	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1	NS-FP	<0.1	
		Oct-02	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1	NS-FP	<0.1	

Table 7 (cont.): Dissolved Metal Sample Results (mg/L)											
Dissolved Metals	EPA Method	Date	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-8	MW-9	MCLs
Lead	7240	Oct-01	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1			0.05
		Feb-02	<0.002	<0.002	<0.002	NS-FP	NS-FP	<0.002			
		Jun-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
		Oct-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
Mercury	7471	Oct-01	<0.001	<0.001	<0.001	NS-FP	NS-FP	<0.001			0.002
		Feb-02	<0.001	<0.001	<0.001	NS-FP	NS-FP	<0.001			
		Jun-02	<0.001	<0.001	<0.001	NS-FP	NS-FP	<0.001	NS-FP	<0.001	
		Oct-02	<0.001	<0.001	<0.001	NS-FP	NS-FP	<0.001	NS-FP	<0.001	
Molybdenum	7480	Oct-01	<0.4	<0.4	<0.4	NS-FP	NS-FP	<0.4			0.035*
		Feb-02	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1			
		Jun-02	<0.035	<0.035	<0.035	NS-FP	NS-FP	<0.035	NS-FP	<0.035	
		Oct-02	<0.035	<0.035	<0.035	NS-FP	NS-FP	<0.035	NS-FP	<0.035	
Nickel	7520	Oct-01	<0.1	<0.1	<0.1	NS-FP	NS-FP	<0.1			0.1
		Feb-02	<0.04	<0.04	<0.04	NS-FP	NS-FP	<0.04			
		Jun-02	0.14	0.17	0.2	NS-FP	NS-FP	0.21	NS-FP	0.18	
		Oct-02	<0.05	<0.05	<0.05	NS-FP	NS-FP	<0.05	NS-FP	<0.05	
Selenium	7740	Oct-01	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005			0.05
		Feb-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005			
		Jun-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
		Oct-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005	NS-FP	<0.005	
Silver	7760	Oct-01	<0.05	<0.05	<0.05	NS-FP	NS-FP	<0.05			0.1
		Feb-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005			
		Jun-02	<0.01	<0.01	<0.01	NS-FP	NS-FP	<0.01	NS-FP	<0.01	
		Oct-02	<0.01	<0.01	<0.01	NS-FP	NS-FP	<0.01	NS-FP	<0.01	
Thallium	7840	Oct-01	<0.2	<0.2	<0.2	NS-FP	NS-FP	<0.2			0.002
		Feb-02	<0.005	<0.005	<0.005	NS-FP	NS-FP	<0.005			
		Jun-02	<0.002	<0.002	<0.002	NS-FP	NS-FP	<0.002	NS-FP	<0.002	
		Oct-02	<0.002	<0.002	<0.002	NS-FP	NS-FP	<0.002	NS-FP	<0.002	
Vanadium	7910	Oct-01	<0.5	<0.5	<0.5	NS-FP	NS-FP	<0.5			0.06*
		Feb-02	0.03	0.05	0.16	NS-FP	NS-FP	0.14			
		Jun-02	<0.06	<0.06	<0.06	NS-FP	NS-FP	<0.06	NS-FP	<0.06	
		Oct-02	<0.06	<0.06	<0.06	NS-FP	NS-FP	<0.06	NS-FP	<0.06	
Zinc	7950	Oct-01	<0.05	<0.05	<0.05	NS-FP	NS-FP	<0.05			5
		Feb-02	<0.01	<0.01	<0.01	NS-FP	NS-FP	<0.01			
		Jun-02	0.07	0.04	0.05	NS-FP	NS-FP	0.04	NS-FP	0.23	
		Oct-02	<0.01	<0.01	<0.01	NS-FP	NS-FP	<0.01	NS-FP	<0.01	

NS-FP= Not Sampled Free Product present.

MCLs= Maximum Contaminant Levels.

* = Health Advisories.

TABLE 8 FACC Free Product Removal Data Summary

Well ID	Date	Product Thickness (feet)	Method of Removal	Volume Removed	Volume Removed (mL)	FP Removed to Date (mL)
MW-1	11/30/2000	Sheen	None	0	0	0
	10/30/2001	Sheen	None	0	0	0
	2/15/2002	0.02	None	0	0	0
	11/13/2002	0.03	None	0	0	0
Mw-1 Total Liters Removed:						0.000
MW-4	10/30/2001	Sheen	None	0	0	0.040
	2/15/2002	0.06	None	0	0	15.165
	10/7/2002	Not measured	None	0	0	26.490
	6/30/2004	0.2	None	0	0	14.751
	7/23/2004	0.17	None	0	0	0.930
	9/16/2004	0.16	Bailer	15 mL	15	41.468
	9/28/2004	0.14	None	0	0	1.558
	10/11/2004	0.14	Bailer	15 mL	15	30
	10/22/2004	0.12	None	0	0	30
	11/1/2004	0.12	None	0	0	30
	11/24/2004	0.12	None	0	0	30
	12/21/2004	0.13	Bailer	10 mL	10	40
	1/4/2005	0.12	None	0	0	40
			None	0	0	40
MW-4 Total Liters Removed:						0.040
Well ID	Date	Product Thickness (feet)	Method of Removal	Volume Removed	Volume Removed (mL)	FP Removed to Date (mL)
MW-6	11/30/2000	Not measured	None	0	0	0
	10/30/2001	0.5	None	0	0	0
	1/18/2002	0.69	Bailer	1.0 gallon	3785	3785
	2/15/2002	0.94	Bailer	0.5 gallon	1892	5677
	6/7/2002	1	Bailer	1.0 gallon	3785	9462
	6/10/2002	0.6	Bailer	0.5 gallon	1892	11354
	6/13/2002	0.34	Bailer	0.5 gallon	1893	13247
	6/14/2002	Not measured	Bailer	0.5 gallon	1893	15140
	10/7/2002	Not measured	None	0	0	15140
	12/2/2002	0.37	None	0	0	15140
	9/16/2004	0.02	None	0	0	15140
	9/28/2004	0.02	None	0	0	15140
	10/11/2004	0.01	None	0	0	15140
	10/22/2004	0.01	None	0	0	15140
	11/1/2004	0.09	None	0	0	15140
	11/24/2004	0.05	None	0	0	15140
	12/21/2004	0.04	Bailer	25 mL	25	15165
	1/4/2005	0.02	None	0	0	15165
MW-6 Total Liters Removed:						15.165
Well ID	Date	Product Thickness (feet)	Method of Removal	Volume Removed	Volume Removed (mL)	FP Removed to Date (mL)
MW-8	6/7/2002	0.84	Bailer	2 gallons	7570	7570
	6/10/2002	0.11	None	0	0	7570
	6/13/2002	0.87	Bailer	1 gallon	3785	11355
	6/14/2002	Not Measured	Bailer	3 gallons	11355	22710
	10/7/2002	Not Measured	None	0	0	22710
	12/2/2002	0.44	None	0	0	22710
	12/18/2002	Not Measured	Bailer	1 gallon	3785	26495
	12/18/2002	0.26	Bailer	1 L	1000	23710
	2/8/2004	0.24	Bailer	100 mL	100	23810
	2/10/2004	0.36	Bailer	100 mL	100	23910
	2/11/2004	0.1	None	0	0	23910
	2/13/2004	Not Measured	None	0	0	23910
	2/14/2004	0.15	Bailer	50 mL	50	23960
	2/16/2004	Not Measured	None	0	0	23960
	2/17/2004	0.08	None	0	0	23960
	2/18/2004	0.08	None	0	0	23960
	3/19/2004	0.19	Bailer	150 mL	150	24110
	4/30/2004	0.75	Bailer	250 mL	250	24360
	5/27/2004	0.3	Bailer	50 mL	50	24410
	6/30/2004	0.37	Bailer	50 mL	50	24460
	7/9/2004	0.1	Bailer	10 mL	10	24470
	7/23/2004	0.34	Bailer	20 mL	20	24490
	8/13/2004	0.34	Bailer	50 mL	50	24540
	9/16/2004	0.46	Bailer	250 mL	250	24790
	9/28/2004	0.41	Bailer	300 mL	300	25090
	10/1/2004	0.36	Bailer	350 mL	350	25440
	10/22/2004	0.4	Bailer	400 mL	400	25840
	11/1/2004	0.15	Bailer	75 mL	75	25915
	11/24/2004	0.18	Bailer	50 mL	50	25965
	12/8/2004	0.32	Bailer	250 mL	250	26215
	12/21/2004	0.24	Bailer	150 mL	150	26365
	1/4/2005	0.21	Bailer	125 mL	125	26490
MW-8 Total Liters Removed:						26.490
No Sheen						

TABLE 8 FACC Free Product Removal Data Summary

Well ID	Date	Product Thickness (feet)	Method of Removal	Volume Removed	Volume Removed (mL)	FP Removed to Date (mL)
MW-10	3/19/2004	0.29	Bailer	0.25 gallons	946	946
	4/30/2004	0.4	Bailer	100 mL	100	1046
	5/27/2004	0.82	Bailer	0.5 gallons	1893	2939
	6/30/2004	0.51	Bailer	0.25 gallons	946	3885
	7/9/2004	0.12	Bailer	15 mL	15	3900
	7/23/2004	0.26	Bailer	10 mL	10	3910
	8/13/2004	1.18	Bailer	1 gallon	3785	7695
	9/16/2004	1.43	Bailer	1.25 gallons	4731	12426
	9/28/2004	0.57	Bailer	500 mL	500	12926
	10/11/2004	0.54	Bailer	600 mL	600	13526
	10/22/2004	0.63	Bailer	500 mL	500	14026
	11/11/2004	0.29	Bailer	200 mL	200	14226
	11/24/2004	0.2	Bailer	75 mL	75	14301
	12/8/2004	0.15	Bailer	50 mL	50	14351
	12/21/2004	0.18	Bailer	100 mL	100	14451
	1/4/2005	0.11	Bailer	500 mL	50	14501
	1/20/2005	0.11	Bailer	100 mL	100	14601
	2/1/2005	0.12	Bailer	100 mL	100	14701
	2/16/2005	0.06	Bailer	50 mL	50	14751
	3/11/2005	0.01		0	0	14751
	4/2/2005	0		0	0	No Sheen
					MW-10 Total Liters Removed:	14.751
MW-16	1/29/2004	0.51	None	0	0	0
	2/8/2004	0.51	Bailer	250 mL	250	250
	2/10/2004	0.37	Bailer	150 mL	150	400
	2/11/2004	0.29	Bailer	100 mL	100	500
	2/13/2004	Not Measured	None	0	0	500
	2/14/2004	Not Measured	None	0	0	500
	2/16/2004	Not Measured	None	0	0	500
	2/17/2004	Not Measured	None	0	0	500
	2/18/2004	Not Measured	None	0	0	500
	3/19/2004	0.19	Bailer	150 mL	150	650
	4/30/2004	0.41	Bailer	100 mL	100	750
	5/27/2004	0.08	Bailer	25 mL	25	775
	6/30/2004	0.34	Bailer	25 mL	25	800
	7/9/2004	0.24	Bailer	10 mL	10	810
	7/23/2004	0.24	Bailer	10 mL	10	820
	8/13/2004	0.28	Bailer	50 mL	50	870
	9/16/2004	0.12	Bailer	20 mL	20	890
	9/28/2004	0.13	Bailer	20 mL	20	910
	10/11/2004	0.06	None	0	0	910
	10/22/2004	0.11	Bailer	15 mL	15	925
	11/11/2004	0.04	None	0	0	925
	11/24/2004	0.02	None	0	0	925
	12/21/2004	0.03	Bailer	5 mL	5	930
					MW-16 Total Liters Removed:	0.930

TABLE 8 FACC Free Product Removal Data Summary

Well ID	Date	Product Thickness (feet)	Method of Removal	Volume Removed	Volume Removed (mL)	FP Removed to Date (mL)
MW-18	1/29/2004	5.15	?	?	0	0
	2/8/2004	4.96	Bailer	4.5 gallons	17033	17033
	2/10/2004	3.76	Bailer	3 gallons	11355	28388
	2/11/2004	3.92	Pump	3.25 gallons	12301	40689
	2/13/2004	3.86	Pump	3.25 gallons	12301	52990
	2/14/2004	4.3	Pump	4.5 gallons	17033	70023
	2/16/2004	4	Pump	3.75 gallons	14194	84217
	2/17/2004	3.8	Pump	3.5 gallons	13248	97465
	2/19/2004	3.3	Pump	3 gallons	11355	108820
	3/4/2004	Not Measured	Pump	3 gallons	11355	120175
	3/5/2004	Not Measured	Pump	1.5 gallons	5678	125853
	3/9/2004	2.96	Pump	4 gallons	15140	140993
	3/10/2004	Not Measured	Pump	1 gallon	3785	144778
	3/19/2004	2.77	Bailer	3 gallons	11355	156133
	4/30/2004	3.5	Bailer	3.75 gallons	14194	170327
	5/27/2004	4.6	Bailer	2.5 gallons	9463	179790
	6/30/2004	2.99	Bailer	1.5 gallons	5678	185468
	7/9/2004	1.75	Bailer	1.0 gallon	3785	189253
	7/23/2004	2.04	Bailer	1.0 gallon	3785	193038
	8/13/2004	1.65	Bailer	0.75 gallons	2839	195877
	9/16/2004	0.23	Bailer	100 mL	100	195977
	9/28/2004	0.02	None	0	0	195977
	10/1/2004	0.02	None	0	0	195977
	10/22/2004	0.02	None	0	0	195977
	11/1/2004	0.22	Bailer	75 mL	75	196052
	11/24/2004	0.79	Bailer	500 mL	500	196552
	12/8/2004	0.96	Bailer	600 mL	600	197152
	12/21/2004	0.91	Bailer	600 mL	600	197752
	1/4/2005	1.22	Bailer	700 mL	700	198452
	1/20/2005	0.36	Bailer	200 mL	200	198652
	2/1/2005	0.66	Bailer	350 mL	350	199002
	2/16/2005	0.58	Bailer	300 mL	300	199302
	3/11/2005	0.13	Bailer	50 mL	50	199352
	4/2/2005	0.34	Bailer	200 mL	200	199552
	4/5/2005	0.04	Skimmer	380 mL	380	199932
	4/7/2005	0.04	Skimmer	380 mL	380	200312
	4/9/2005	0.04	Skimmer	380 mL	380	200692
	4/11/2005	0.04	Skimmer	380 mL	380	201072
	4/13/2005	0.04	Skimmer	380 mL	380	201452
	4/15/2005	0.04	Skimmer	380 mL	380	201832
	4/19/2005	0.04	Skimmer	380 mL	380	202212
	4/20/2005	0.04	Skimmer	380 mL	380	202592
	4/22/2005	0.04	Skimmer	380 mL	380	202972
	4/25/2005	0.04	Skimmer	380 mL	380	203352
	4/27/2005	0.04	Skimmer	380 mL	380	203732
	4/29/2005	0.04	Skimmer	380 mL	380	204112
	5/4/2005	0.04	Skimmer	380 mL	380	204492
	5/6/2005	0.04	Skimmer	380 mL	380	204872
	5/10/2005	0.03	Skimmer	300 mL	300	205172
	5/13/2005	0.03	Skimmer	300 mL	300	205472
	5/18/2005	0.03	Skimmer	300 mL	300	205772
	5/21/2005	0.03	Skimmer	200 mL	200	205972
	5/27/2005	0.04	Skimmer	200 mL	200	206172
	6/3/2005	0.04	Skimmer	100 mL	100	206272
	6/11/2005	0.03	Skimmer	100 mL	100	206372
	6/18/2005	0.04	Skimmer	100 mL	100	206472
	6/25/2005	0.04	Skimmer	100 mL	100	206572
	7/2/2005	0.03	Skimmer	100 mL	100	206672
	7/9/2005	0.03	Skimmer	100 mL	100	206772
	7/16/2005	0.03	Skimmer	100 mL	100	206872
	7/16/2005	0.03	Skimmer	100 mL	100	206972
	7/23/2005	0.03	Skimmer	100 mL	100	207072
	7/30/2005	0.03	Skimmer	100 mL	100	207172
	8/6/2005	0.03	Skimmer	100 mL	100	207272
	8/13/2005	0.03	Skimmer	100 mL	100	207372
	8/20/2005	0.03	Skimmer	100 mL	100	207472
	8/27/2005	0.02	Skimmer	100 mL	100	207572
	9/3/2005	0.02	Skimmer	100 mL	100	207672
	9/10/2005	0.02	Skimmer	50 mL	50	207722
	9/19/2005	0.03	Skimmer	50 mL	50	207772
	10/1/2005	0.03	Skimmer	50 mL	50	207822
	10/8/2005	0.02	Skimmer	50 mL	50	207872
	10/15/2005	0.02	Skimmer	50 mL	50	207922
	10/24/2005	0.02	Skimmer	50 mL	50	207972
	10/31/2005	0.02	Skimmer	50 mL	50	208022
	11/12/2005	Sheen	Skimmer	0 mL	0	208022
	3/11/2006	Sheen	Skimmer	25mL	25	208047
	6/16/2006	Sheen	Skimmer	0	0	208047
	12/18/2007	0.65	Bailer	200mL	200	208247
	12/28/2007	0.88	Bailer	220 mL	220	208467
	3/13/2008	Sheen	Bailer	20 mL	20	208487

MW-18 Total Liters Removed: 208.487

TABLE 8 FACC Free Product Removal Data Summary

Well ID	Date	Product Thickness (feet)	Method of Removal	Volume Removed	Volume Removed (mL)	FP Removed to Date (mL)
MW-19	1/29/2004	1.75	?	0	0	0
	2/8/2004	0.43	Bailer	200 mL	200	200
	2/10/2004	0.7	Bailer	300 mL	300	500
	2/11/2004	0.27	Pump	100 mL	100	600
	2/13/2004	Not Measured	None	0	0	600
	2/14/2004	0.6	Pump	250 mL	250	850
	2/16/2004	0.3	Pump	100 mL	100	950
	2/17/2004	0.25	Pump	100 mL	100	1050
	2/18/2004	0.23	Pump	100 mL	100	1150
	3/19/2004	1.51	Bailer	0.75 gallons	2839	3989
	4/30/2004	2.05	Bailer	1.25 gallons	4731	8720
	5/27/2004	2.2	Bailer	1.25 gallons	4731	13451
	6/30/2004	2.04	Bailer	1 gallon	3785	17236
	7/9/2004	1.1	Bailer	0.5 gallons	1893	19129
	7/23/2004	0.77	Bailer	0.4 gallons	1514	20643
	8/13/2004	1.07	Bailer	0.5 gallons	1893	22535
	9/16/2004	1.38	Bailer	0.5 gallons	1893	24428
	9/28/2004	0.94	Bailer	400 mL	400	24828
	10/11/2004	0.75	Bailer	450 mL	450	25278
	10/22/2004	0.53	Bailer	250 mL	250	25528
	11/11/2004	0.66	Bailer	450 mL	450	25978
	11/24/2004	0.78	Bailer	500 mL	500	26478
	12/8/2004	0.88	Bailer	500 mL	500	26978
	12/21/2004	1	Bailer	600 mL	600	27578
	1/4/2005	1.05	Bailer	600 mL	600	28178
	1/20/2005	0.95	Bailer	500 mL	500	28678
	2/1/2005	0.65	Bailer	375 mL	375	29053
	2/16/2005	0.5	Bailer	300 mL	300	29353
	3/1/2005	0.35	Bailer	100 mL	100	29453
	4/2/2005	0.42	Bailer	250 mL	250	29703
	4/5/2005	0.04	Skimmer	380 mL	380	30083
	4/7/2005	0.04	Skimmer	380 mL	380	30463
	4/9/2005	0.04	Skimmer	380 mL	380	30843
	4/11/2005	0.04	Skimmer	380 mL	380	31223
	4/13/2005	0.04	Skimmer	380 mL	380	31603
	4/15/2005	0.04	Skimmer	380 mL	380	31983
	4/19/2005	0.04	Skimmer	380 mL	380	32363
	4/20/2005	0.04	Skimmer	380 mL	380	32743
	4/22/2005	0.04	Skimmer	380 mL	380	33123
	4/25/2005	0.04	Skimmer	380 mL	380	33503
	4/27/2005	0.04	Skimmer	380 mL	380	33883
	4/29/2005	0.04	Skimmer	380 mL	380	34263
	5/4/2005	0.04	Skimmer	380 mL	380	34643
	5/6/2005	0.04	Skimmer	380 mL	380	35023
	5/10/2005	0.03	Skimmer	300 mL	300	35323
	5/13/2005	0.03	Skimmer	300 mL	300	35623
	5/18/2005	0.03	Skimmer	300 mL	300	35923
	5/21/2005	0.03	Skimmer	200 mL	200	36123
	5/27/2005	0.05	Skimmer	200 mL	200	36323
	6/3/2005	0.04	Skimmer	300 mL	300	36623
	6/11/2005	0.04	Skimmer	200 mL	200	36823
	6/18/2005	0.04	Skimmer	200 mL	200	37023
	6/25/2005	0.04	Skimmer	200 mL	200	37223
	7/2/2005	0.03	Skimmer	200 mL	200	37423
	7/9/2005	0.03	Skimmer	200 mL	200	37623
	7/16/2005	0.03	Skimmer	200 mL	200	37823
	7/16/2005	0.03	Skimmer	200 mL	200	38023
	7/23/2005	0.03	Skimmer	200 mL	200	38223
	7/30/2005	0.03	Skimmer	200 mL	200	38423
	8/6/2005	0.03	Skimmer	200 mL	200	38623
	8/13/2005	0.03	Skimmer	200 mL	200	38823
	8/20/2005	0.03	Skimmer	200 mL	200	39023
	8/27/2005	0.02	Skimmer	150 mL	150	39173
	9/3/2005	0.02	Skimmer	150 mL	150	39323
	9/10/2005	0.02	Skimmer	150 mL	150	39473
	9/19/2005	0.03	Skimmer	150 mL	150	39623
	10/1/2005	0.03	Skimmer	150 mL	150	39773
	10/8/2005	0.02	Skimmer	100 mL	100	39873
	10/15/2005	0.02	Skimmer	100 mL	100	39973
	10/24/2005	0.02	Skimmer	100 mL	100	40073
	10/31/2005	0.02	Skimmer	100 mL	100	40173
	11/12/2005	0.02	Skimmer	250 mL	250	40423
	12/12/2005	0.02	Skimmer	200 mL	200	40623
	1/12/2006	0.01	Skimmer	150 mL	150	40773
	2/11/2006	0.01	Skimmer	150 mL	150	40923
	3/11/2006	0.01	Skimmer	125 mL	125	41048
	4/22/2006	Sheen	Skimmer	100ml	100	41148
	5/20/2006	Sheen	Skimmer	100 ml	100	41248
	6/16/2006	Sheen	Skimmer	60 ml	60	41308
	9/19/2006	0.05	Skimmer	40 ml	40	41348
	12/7/2006	0.01	Skimmer	25ml	25	41373
	3/19/2007	0.005	Skimmer	20 ml	20	41393
	6/27/2007	0.0005	Skimmer	30 ml	30	41423
	9/26/2007	Sheen	Skimmer	20	20	41443
	12/18/2007	Sheen	Skimmer	20	20	41463
	3/13/2008	Sheen	Skimmer	5mL	5	41468

MW-19 Total Liters Removed: 41.468

MW-21	12/8/2004	2.98	Bailer	1500 mL	1500	1500
	12/13/2004	0.22	Bailer	50 mL	50	1550
	12/21/2004	0.04	Bailer	5 mL	5	1555
	1/4/2005	0.04	None	0	0	1555
	2/1/2005	0.002	Bailer	3 mL	3	1558
	4/2/2005	0		0	0	No Sheen

MW-21 Total Liters Removed: 1.558

MW-22	2/10/2004	0.04	None	0	0	0
						MW-22 Total Liters Removed: 0.000

GRAND TOTAL REMOVED: 308.889 LITERS

TABLE 1
DATA FOR CARBON ABSORPTION -BASED SVE OPERATIONS

DATE	EXTRACTION WELLS ONLINE	EXTRACTION WELLS OFFLINE	VACUUM AT INLET (INCH Hg)	INFLOW GAS FLOW RATE (CFM)	INFLOW CONCENTRATION (PPM/VOL)	EFFLUENT CONCENTRATION (PPM/VOL)	HOURS OPERATED	KNOCK-OUT WATER (GALLONS)
3rd Quarter 2007								
10/12/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12	1.8	170	1059	1.4	14	
10/13/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
10/14/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
10/15/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
10/16/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12	1.7	170	952	1.2	24	
10/17/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
10/18/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
10/19/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
10/20/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
10/21/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
10/22/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
10/23/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
10/23/2008	VEW-1, E-10, E-12	E-1 through E-9, E-11	0.92	170	755	1.2	12	
10/24/2007	VEW-1, E-10, E-12	E-1 through E-9, E-11		170	152	0.8	12	
10/25/2007	VEW-1, E-10, E-12	E-1 through E-9, E-11		170			24	
10/26/2007	VEW-1, E-10, E-12	E-1 through E-9, E-11		170			24	
10/27/2007	VEW-1, E-10, E-12	E-1 through E-9, E-11		170			24	
10/28/2007	VEW-1, E-10, E-12	E-1 through E-9, E-11		170			24	
10/29/2007	VEW-1, E-10, E-12	E-1 through E-9, E-11	1.5	170	279	2.5	12	
10/29/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12	1.2	170	122	1.9	12	
10/30/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
10/31/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
11/1/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
11/2/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
11/3/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
11/4/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
11/5/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12	1.5	170			24	
11/5/2007	VEW-1, E-10, E-12	E-1 through E-7, E-9, E-11	2.6	170			24	
11/6/2007	VEW-1, E-10, E-12	E-1 through E-7, E-9, E-11		170			24	
11/7/2007	VEW-1, E-10, E-12	E-1 through E-7, E-9, E-11		170			24	
11/8/2007	VEW-1, E-10, E-12	E-1 through E-7, E-9, E-11		170			24	
11/9/2007	VEW-1, E-10, E-12	E-1 through E-7, E-9, E-11		170			24	
11/10/2007	VEW-1, E-10, E-12	E-1 through E-7, E-9, E-11		170			24	
11/11/2007	VEW-1, E-10, E-12	E-1 through E-7, E-9, E-11		170			24	
11/12/2007	VEW-1, E-10, E-12	E-1 through E-7, E-9, E-11	1.3	170	224	0.7	12	
11/12/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12	0.9	170	445	1.3	12	
11/13/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
11/14/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
11/15/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
11/16/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
11/17/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	
11/18/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			24	

TABLE 1
DATA FOR CARBON ABSORPTION -BASED SVE OPERATIONS

DATE	EXTRACTION WELLS ONLINE	EXTRACTION WELLS OFFLINE	VACUUM AT INLET (INCH HG)	INFLOW GAS FLOW RATE (CFM)	INFLOW CONCENTRATION (PPM/VOL)	EFFLOW CONCENTRATION (PPM/VOL)	HOURS OPERATED	KNOCK-OUT WATER (GALLONS)
11/19/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12	1.6	170	33	4.1	24	
11/19/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12	2.5	170	30	2.2	24	21
11/20/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		170			24	
11/21/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		170			24	
11/22/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		170			24	
11/23/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		170			24	
11/24/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		170			24	
11/25/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		170			24	
11/26/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12	2.5	170	60	1.5	24	
11/26/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12	1.9	170	474	5.5	12	32
11/27/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			12	
11/28/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			12	
11/29/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			12	
11/30/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			12	
12/1/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			12	
12/2/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			12	
12/3/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12	1.4	170	177	3.2	12	
12/3/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12	2.3	170	191	6	12	34
12/4/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		170			12	
12/5/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		170			12	
12/6/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		170			12	
12/7/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		170			12	
12/8/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		170			12	
12/9/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		170			12	
12/10/2007	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12	2.0	170	306	7	12	
12/10/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12	1.9	170			8	
12/11/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			8	
12/12/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			8	
12/13/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			8	
12/14/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			8	
12/15/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			8	
12/16/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170			8	24
12/17/2007	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		170	28	41	12	15
System Turned Off								
1/29/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12	1.4	200	180	0.5	24	
1/30/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		200			24	
1/31/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		200			24	
2/1/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		200			24	
2/2/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		200			24	
2/3/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		200			24	
2/4/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		200			24	
2/5/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12	1.4	200	451	2.5	24	
2/6/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		200			24	
2/7/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12	1.4	190			24	14
2/8/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		190			24	

TABLE 1
DATA FOR CARBON ABSORPTION -BASED SVE OPERATIONS

DATE	EXTRACTION WELLS ONLINE	EXTRACTION WELLS OFFLINE	VACUUM AT INLET (INCH Hg)	INFLOW GAS FLOW RATE (CFM)	INFLOW CONCENTRATION (PPM/VOL)	EFFLUENT CONCENTRATION (PPM/VOL)	HOURS OPERATED	KNOCK-OUT WATER (GALLONS)
2/9/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
2/10/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
2/11/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12	1.4	190			24	22
2/12/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
2/13/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12	1.4	190	280	0	24	
2/13/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12	2.2	190	50	0.4	24	
2/14/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12	2.4	190			24	
2/15/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
2/16/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
2/17/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
2/18/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
2/19/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12	2.4	190			24	13
2/20/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
2/21/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
2/22/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
2/23/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12	2.4	190			24	18
2/24/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
2/25/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12	2.1	190	44	3	24	10
2/25/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12	1.6	190			24	
2/26/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
2/27/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
2/28/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12	1.7	190	300	4	24	16
2/29/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/1/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/2/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/3/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/4/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/5/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/6/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/7/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12	1.4	190	435	0.5	24	30
3/8/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/9/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/10/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12	1.1	190			24	11
3/11/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/12/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/13/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/14/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12	1.1	190	330	5	24	8
3/15/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/16/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/17/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12	1.4	190	340	8	24	6
3/18/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/19/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/20/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/21/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	
3/22/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7. E-9 through E-12		190			24	

TABLE 1
DATA FOR CARBON ABSORPTION -BASED SVE OPERATIONS

DATE	EXTRACTION WELLS ONLINE	EXTRACTION WELLS OFFLINE	VACUUM AT INLET (INCH Hg)	INFILUENT GAS FLOW RATE (CFM)	INFILUENT CONCENTRATION (PPM/VOL)	EFFLUENT CONCENTRATION (PPM/VOL)	HOURS OPERATED	KNOCK-OUT WATER (GALLONS)
3/23/2008	E-1, E-3, E-4, E-6	VEW-1, E-2, E-5, E-7, E-9 through E-12		190			24	
3/24/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12	1.4	190	38	6	24	8
3/25/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
3/26/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
3/27/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
3/28/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
3/29/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
3/30/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12		190			24	
3/31/2008	VEW-1, E-9, E-10	E-1 through E-7, E-11, E-12	1.9	190	45	8	24	7
Average Values				180	288	4.4	21.2	17.0
							Total 2962 289	
							Percent Operating Up-time 100%*	

*This represents the up-time when the system was not turned off. Otherwise it operated 56% of the time during the 4Q07 and 1Q08.

TABLE 6
VOCS DETECTED IN VAPORS EXTRACTED BY SVE SYSTEM

Sample BL710068-2 (SVE Inlet) - October 12, 2007						Sample BL710068-1 (SVE Outlet) - October 12, 2007					
Compound	Formula	Molecular Weight	Molecular Weight Contribution	VOCs	VOCs	Compound	Formula	Molecular Weight	Molecular Weight Contribution	VOCs ^{*1}	VOCs
		(lb/lbmole)	(lb/lbmole)	(ppb)	(as % of Total)			(lb/lbmole)	(lb/lbmole)	(ppb)	(as % of Total)
Vinyl Chloride	CH ₂ CHCl	62.5	0.1	4.7	0.2%	Vinyl Chloride	CH ₂ CHCl	62.5	-	ND	-
1,1-Dichloroethene	C ₂ H ₂ Cl ₂	96.9	8.4	201	8.6%	1,1-Dichloroethene	C ₂ H ₂ Cl ₂	96.9	-	ND	-
Methylene Chloride	CH ₂ Cl ₂	84.9	0.1	2	0.1%	Methylene Chloride	CH ₂ Cl ₂	84.9	-	ND	-
1,1-Dichloroethane	C ₂ H ₄ Cl ₂	99.0	3.9	91.9	3.9%	1,1-Dichloroethane	C ₂ H ₄ Cl ₂	99.0	-	ND	-
cis-1,2-Dichloroethene	C ₂ H ₂ Cl ₂	96.9	6.0	143	6.1%	cis-1,2-Dichloroethene	C ₂ H ₂ Cl ₂	96.9	-	ND	-
1,1,1-Trichloroethane	CH ₃ CCl ₃	133.4	82.0	1430	61.4%	1,1,1-Trichloroethane	CH ₃ CCl ₃	133.4	-	ND	-
Benzene	C ₆ H ₆	78.1	0.1	1.7	0.1%	Benzene	C ₆ H ₆	78.1	-	ND	-
Trichloroethene	C ₂ HCl ₃	131.4	2.9	51.5	2.2%	Trichloroethene	C ₂ HCl ₃	131.4	-	ND	-
Toluene	C ₇ H ₈	92.1	4.6	115	4.9%	Toluene	C ₇ H ₈	92.1	-	ND	-
Tetrachloroethene	C ₂ Cl ₄	165.8	15.3	215	9.2%	Tetrachloroethene	C ₂ Cl ₄	165.8	-	ND	-
Ethylbenzene	C ₈ H ₁₀	106.2	0.6	12.6	0.5%	Ethylbenzene	C ₈ H ₁₀	106.2	-	ND	-
Total Xylenes	C ₆ H ₄ (CH ₃) ₂	106.2	2.3	50	2.1%	Total Xylenes	C ₆ H ₄ (CH ₃) ₂	106.2	-	ND	-
1,3,5-Trimethylbenzene	C ₉ H ₁₂	120.2	0.4	7	0.3%	1,3,5-Trimethylbenzene	C ₉ H ₁₂	120.2	-	ND	-
1,2,4-Trimethylbenzene	C ₉ H ₁₂	120.2	0.3	6.4	0.3%	1,2,4-Trimethylbenzene	C ₉ H ₁₂	120.2	-	ND	-
				100.0%							
Average Molecular Weight of Vapor		126.7	(lb/lbmole)	Average Molecular Weight of Vapor		-	(lb/lbmole)				

Sample BL711057-2 (SVE Inlet) - November 12, 2007						Sample BL711057-1 (SVE Outlet) - November 12, 2007					
Compound	Formula	Molecular Weight	Molecular Weight Contribution	VOCs ^{*1}	VOCs	Compound	Formula	Molecular Weight	Molecular Weight Contribution	VOCs ^{*1}	VOCs
		(lb/lbmole)	(lb/lbmole)	(ppb)	(as % of Total)			(lb/lbmole)	(lb/lbmole)	(ppb)	(as % of Total)
1,1-Dichloroethene	C ₂ H ₂ Cl ₂	96.9	3.0	5.4	3.1%	1,1-Dichloroethene	C ₂ H ₂ Cl ₂	96.9	65.9	22.7	68.0%
1,1-Dichloroethane	C ₂ H ₄ Cl ₂	99.0	1.1	2.0	1.1%	1,1-Dichloroethane	C ₂ H ₄ Cl ₂	99.0	15.7	5.3	15.9%
cis-1,2-Dichloroethene	C ₂ H ₂ Cl ₂	96.9	5.2	9.4	5.3%	cis-1,2-Dichloroethene	C ₂ H ₂ Cl ₂	96.9	-	ND	-
1,1,1-Trichloroethane	CH ₃ CCl ₃	133.4	43.3	57	32.4%	1,1,1-Trichloroethane	CH ₃ CCl ₃	133.4	21.6	5.4	16.2%
Trichloroethene	C ₂ HCl ₃	131.4	5.7	7.6	4.3%	Trichloroethene	C ₂ HCl ₃	131.4	-	ND	-
Tetrachloroethene	C ₂ Cl ₄	165.8	89.0	94.4	53.7%	Tetrachloroethene	C ₂ Cl ₄	165.8	-	ND	-
				100.0%							
Average Molecular Weight of Vapor		147.3	(lb/lbmole)	Average Molecular Weight of Vapor		103.2	(lb/lbmole)				

Average Molecular Weight of Vapor From the Two Influent Samples 125.7 (lb/lbmole)

ND = Not Detected

AMOUNT OF VOCs EXTRACTED BY SVE SYSTEM IN THE 1st QUARTER, 2008
SVE TABLE 2 MASS REMOVAL

Averaged VOCs Measured (ppmv)	Averaged Flow Rate* ¹ (scfm)	Days of Operation (days)	Up Time* ² (%)	Hours of* ³ Run Time	MwV* ⁴ (lb/lbmole)	MwA* ⁵ lbmoles/ft ³	VOCs (lb/min)	VOCs (lb/hr)	VOCs (lb/Qtr)
288.0	180	67	100	2962	103.51	358	0.015	0.9	2663.8

Notes

*1 Averaged Flow Rate =Measured flow rate of SVE system (In CFM)

*2 Number of hours of run time divided by total number of hours in the monitoring period

*3 Total number of hours as recorded from monitoring logs

*4 MwV = Average Molecular weight of VOC vapor in pounds per pound-mole based on January 22, February 17 and March 9th, 2006 samples

*5 MwA = 358 pound-moles per cubic foot of Air at STP

FORMULAS

$\frac{\text{VOCs} \times \text{FR} \times \text{MwV}}{\text{MwA} \times 1,000,000}$	Equals	<u>lbs</u> min
$\frac{\text{lbs} \times 60 \text{ min/hr}}{\text{min}}$	Equals	<u>lbs</u> hr
$\frac{\text{lbs} \times \text{Hours of Operation}}{\text{day}}$	Equals	<u>lbs</u> Qtr

AMOUNT OF VOCs EXTRACTED BY SVE SYSTEM IN THE 1st QUARTER, 2008

§

APPENDIX A

FIELD SAMPLING LOGS

WELL GAUGING DATA

CLEAN SOIL INC.

DATE: 03-13-2008

PAGE 1 of 2

SITE: FORMER ANGELES CHEMICAL FACILITY

TECHNICIAN AL W

SITE ADDRESS: 8915 SORENSEN AVE. SANTA FE SPRINGS, CA.

WELL ID.	WELL SIZE	TIME	SHEEN/ ODOR	DEPTH TO IMMISSIBLES	THICKNESS OF LAYER	DEPTH TO WATER	DEPTH TO WELL BOTTOM
MW-4	4"	—	—	—	—	—	—
MW-6	4"	—	—	—	—	—	—
MW-8	4"	—	—	—	—	—	—
MW-9	4"	<u>3:00</u>	—	—	—	<u>34,750</u>	<u>45.5</u>
MW-10	4"	<u>1'30</u>	—	—	—	<u>33,700</u>	<u>40</u>
MW-10X		<u>1:30</u>	—	—	—	<u>33,700</u>	
MW-11	2"	—	—	—	—	—	—
MW-12	2"	<u>12:00</u>	—	—	—	<u>39.100</u>	<u>40</u>
MW-13	2"	<u>11:45</u>	—	—	—	<u>44,725</u>	<u>62</u>
MW-14	2"	—	—	—	—	—	—
MW-15	2"	<u>9:12</u>	—	—	—	<u>46-775</u>	<u>64</u>

WELL GAUGING DATA

CLEAN SOIL INC.

DATE: 03-13-2008

PAGE 2 of 2

SITE: FORMER ANGELES CHEMICAL FACILITY

TECHNICIAN AL W

SITE ADDRESS: 8915 SORENSEN AVE. SANTA FE SPRINGS, CA

WELL ID.	WELL SIZE	TIME	SHEEN/ ODOR	DEPTH TO IMMISSIBLES	THICKNESS OF LAYER	DEPTH TO WATER	DEPTH TO WELL BOTTOM
----------	-----------	------	-------------	----------------------	--------------------	----------------	----------------------

MW-16	2"	<u>4'00</u>	—	—	—	—	<u>34.258</u>	<u>46</u>
MW-17	2"	<u>2'30</u>	—	—	—	—	<u>43.200</u>	<u>66</u>
MW-18	2"	<u>11'15</u>	—	<u>36.500</u>	<u>.500</u>	—	<u>37.000</u>	<u>46</u>
MW-19	2"	—	—	—	—	—	—	—
MW-20	2"	—	—	—	—	—	—	—
MW-21	2"	<u>10'45</u>	—	—	—	—	<u>45.400</u>	<u>63</u>
MW-22	2"	<u>10'25</u>	<u>DRY</u>	—	—	—	<u>39.350</u>	<u>40</u>
MW-23	4"	<u>3'30</u>	—	—	—	—	<u>41.700</u>	<u>81</u>
MW-24	4"	<u>4'38</u>	—	—	—	—	<u>45.60</u>	<u>77</u>
MW-25	4"	<u>9'25</u>	—	—	—	—	<u>46.800</u>	<u>81</u>
MW-26	2"	<u>8'40</u>	—	—	—	—	<u>35'6 1/2"</u>	<u>40</u>

WELL GAUGING DATA

CLEAN SOIL INC.

DATE: 03-14-2008

PAGE 1 of 2

SITE: FORMER ANGELES CHEMICAL FACILITY

TECHNICIAN AL W

SITE ADDRESS: 8915 SORENSEN AVE. SANTA FE SPRINGS, CA.

WELL ID.	WELL SIZE	TIME	SHEEN/ ODOR	DEPTH TO IMMISSIBLES	THICKNESS OF LAYER	DEPTH TO WATER	DEPTH TO WELL BOTTOM
MW-4	4"	9:10A	N	—	—	110 water	—
MW-6	4"	9:15A	N	—	—	NO water	—
MW-8	4"	7:50A	N	—	—	33.95	—
MW-9	4"	—	—	—	—	—	—
MW-10	4"	—	—	—	—	—	—
MW-11	2"	8:15A	N	—	—	33.89	—
MW-12	2"	—	—	—	—	—	—
MW-13	2"	—	—	—	—	—	—
MW-14	2"	8:35A	N	—	—	45.10	—
MW-15	2"	—	—	—	—	—	—

WELL GAUGING DATA

CLEAN SOIL INC.

DATE: 03-14-2008

PAGE 2 of 2

SITE: FORMER ANGELES CHEMICAL FACILITY

TECHNICIAN AL W

SITE ADDRESS: 8915 SORENSEN AVE. SANTA FE SPRINGS, CA

WELL ID.	WELL SIZE	TIME	SHEEN/ ODOR	DEPTH TO IMMISSIBLES	THICKNESS OF LAYER	DEPTH TO WATER	DEPTH TO WELL BOTTOM
----------	-----------	------	-------------	----------------------	--------------------	----------------	----------------------

MW-16 2" — — — — — — — —

MW-17 2" — — — — — — — —

MW-18 2" — — — — — — — —

MW-19 2" 8:50 Sheen — — 34.62 — —

MW-20 2" 9:00 N — — 43.81 — —

MW-21 2" — — — — — — — —

MW-22 2" — — — — — — — —

MW-23 4" — — — — — — — —

MW-24 4" — — — — — — — —

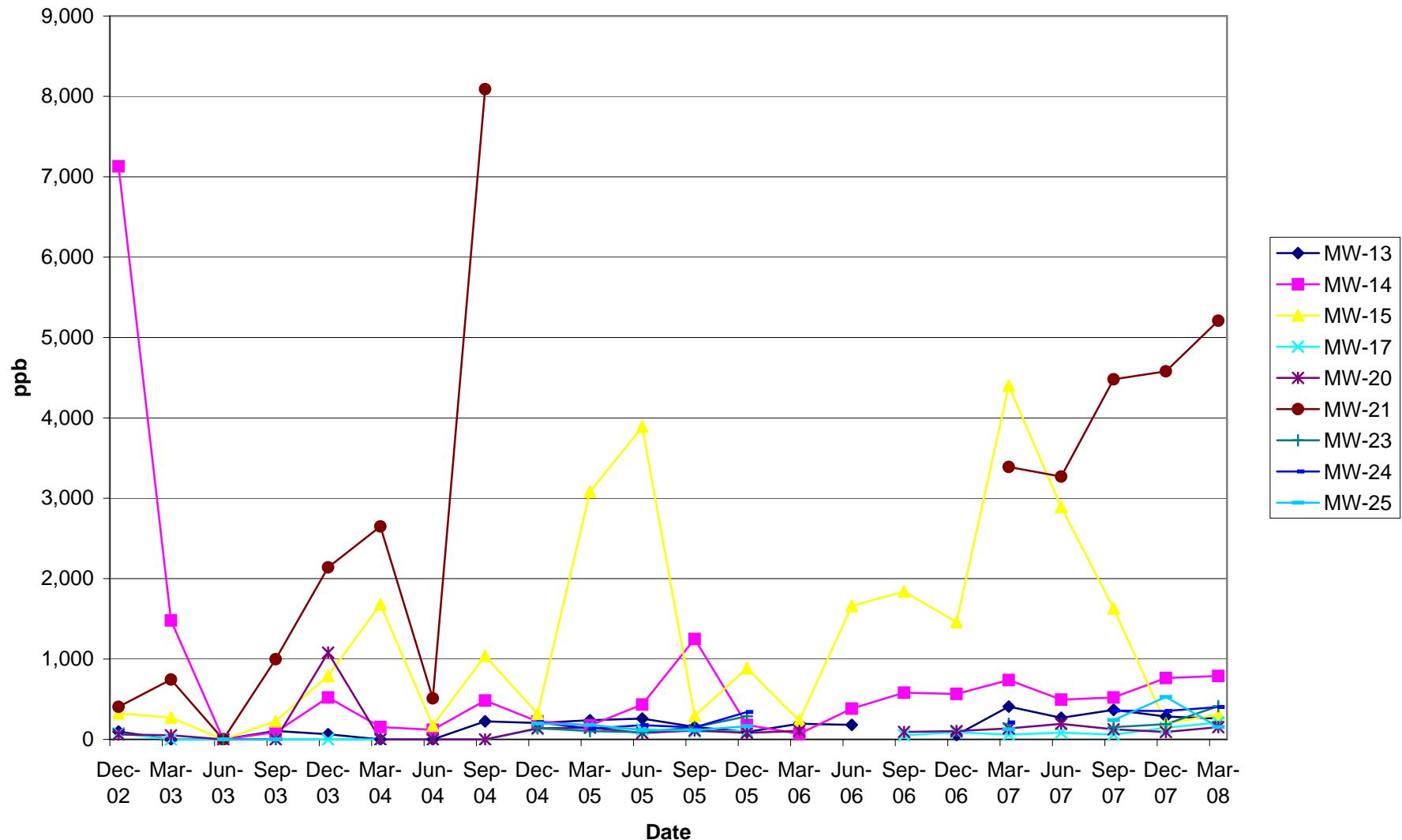
MW-25 4" — — — — — — — —

MW-26 2" — — — — — — — —

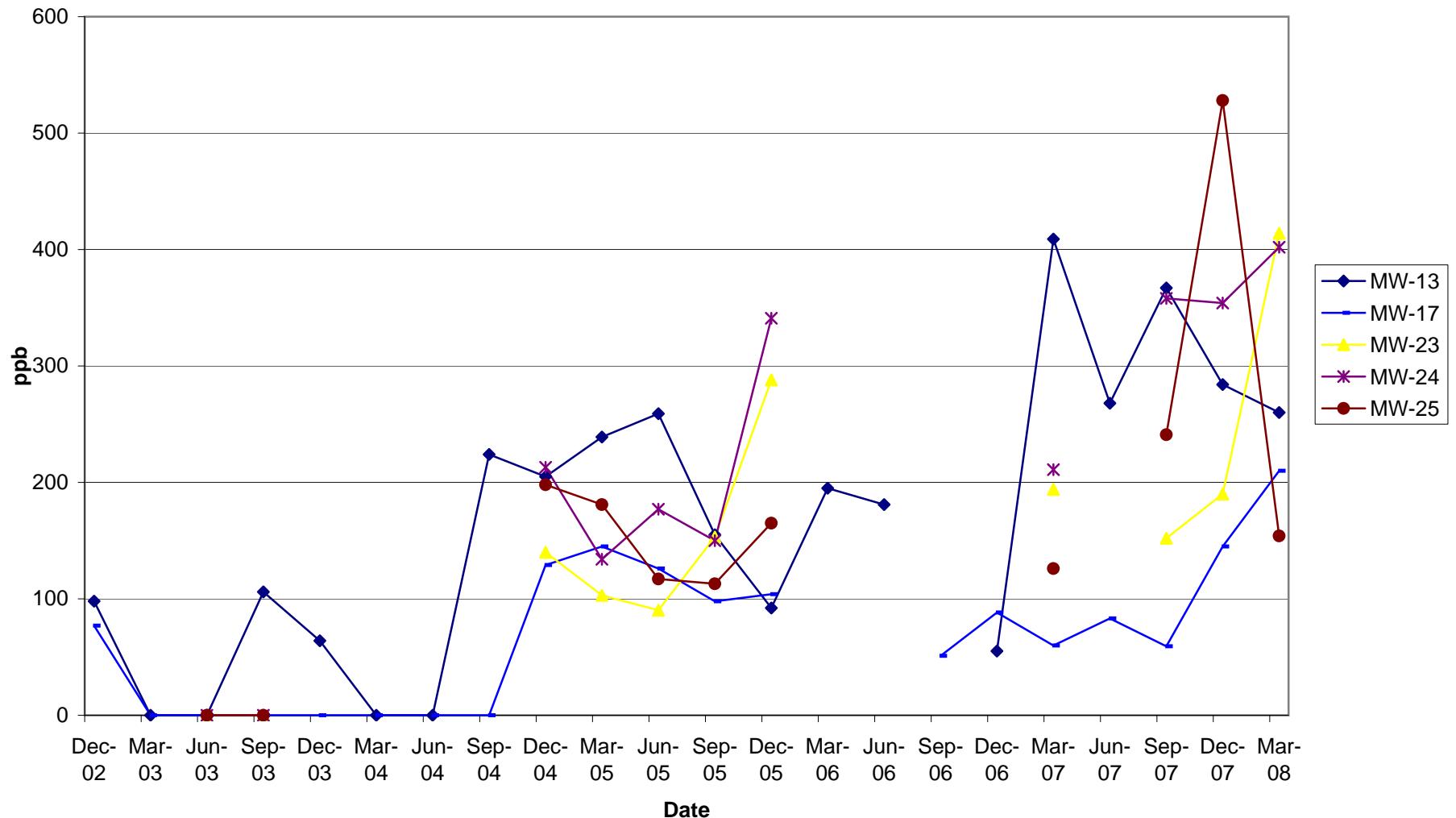
APPENDIX B

CONTAMINANT GRAPHS

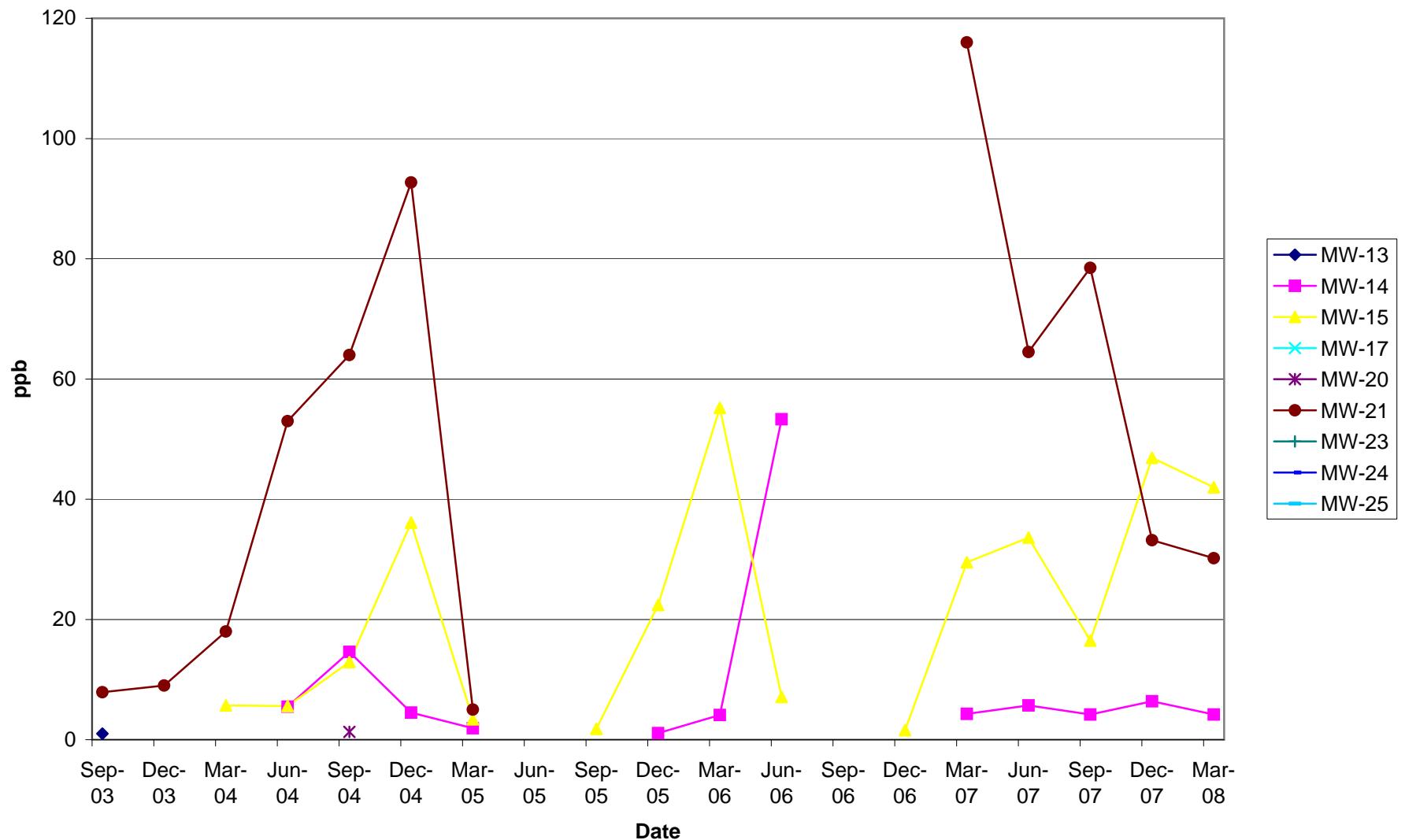
Dissolved TPH-gas in A1 Wells



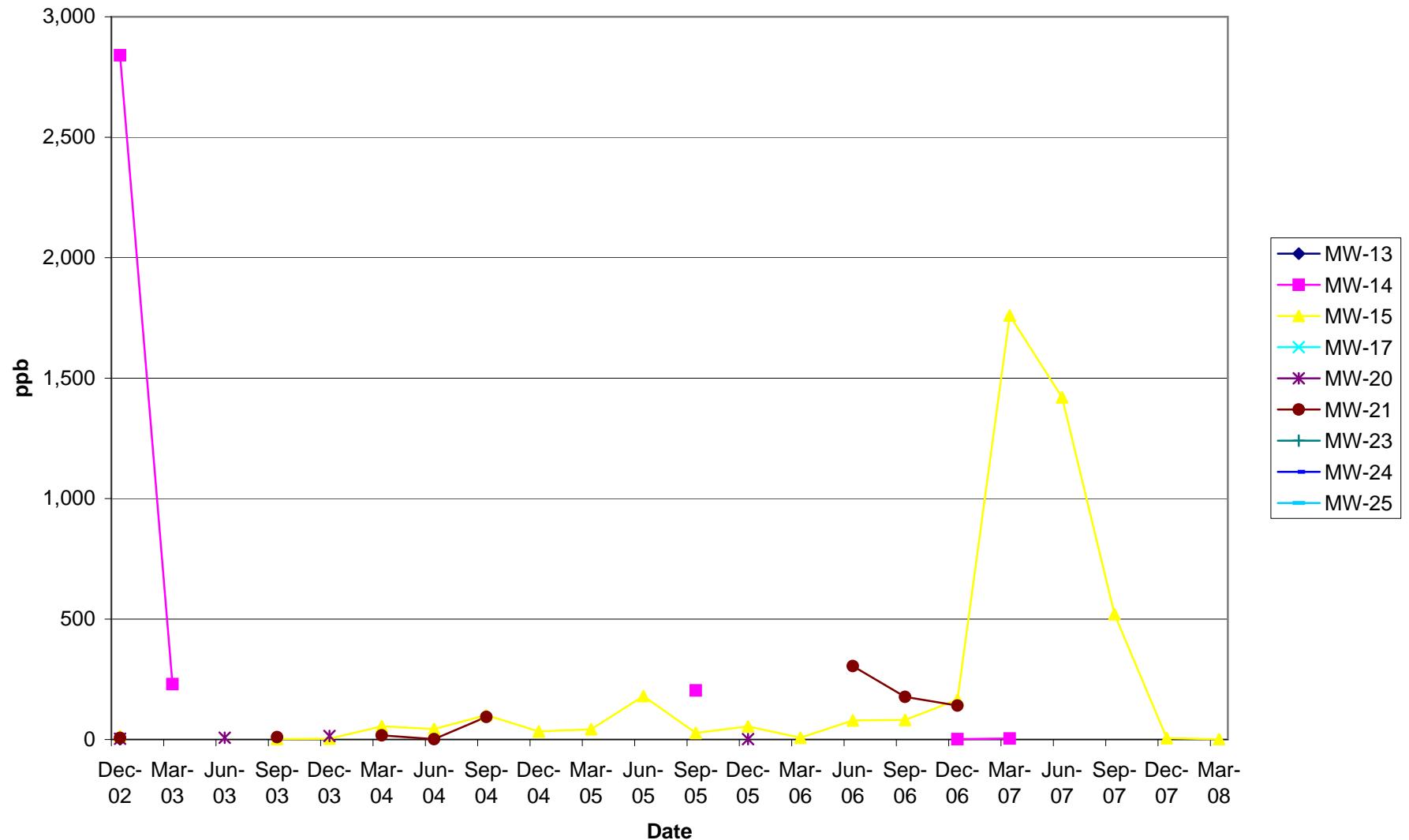
Dissolved TPH-gas in A1 Wells
(excluding MW-14, MW-15, MW-20 and MW-21 for smaller scale)



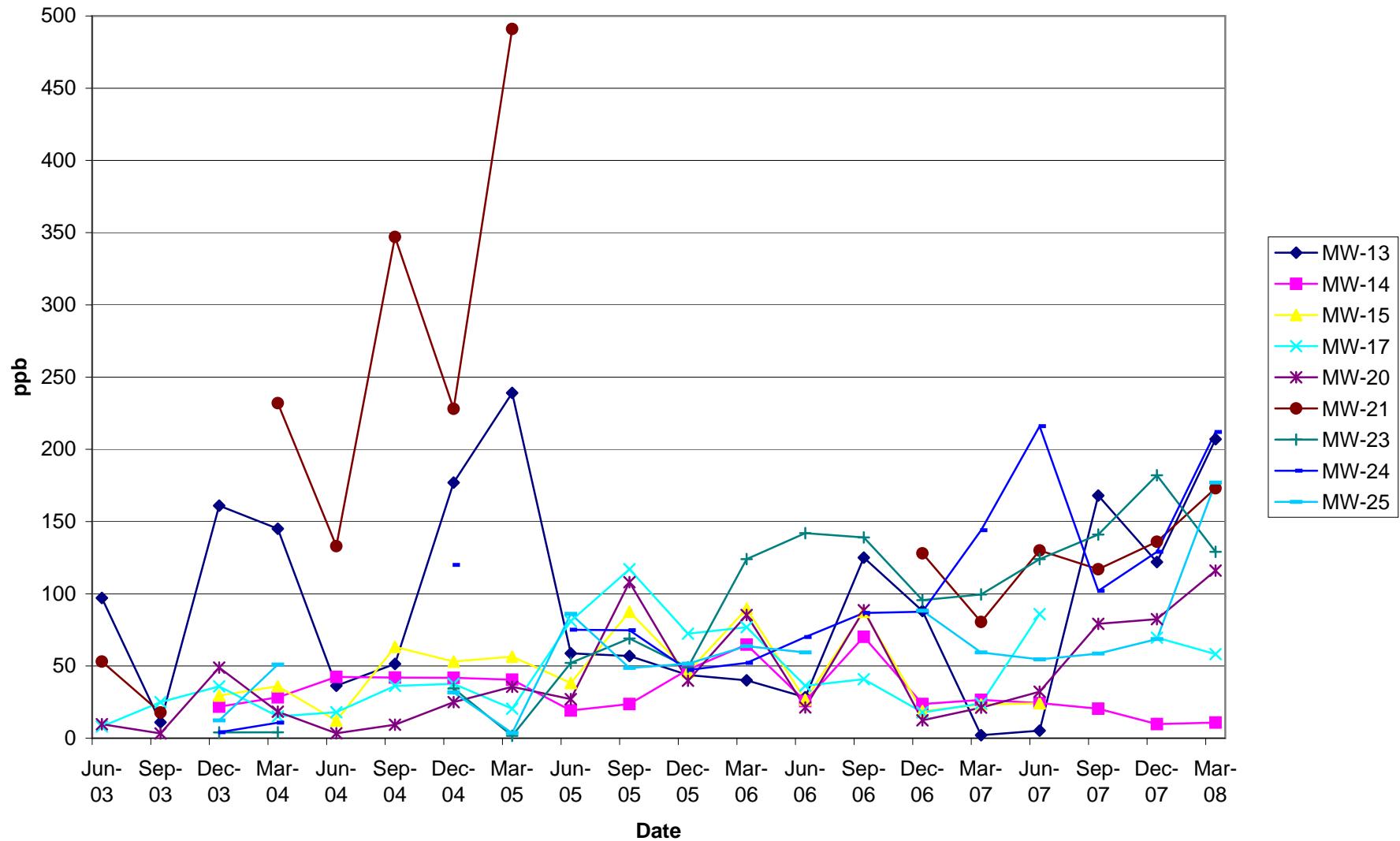
Dissolved Benzene in A1 Wells



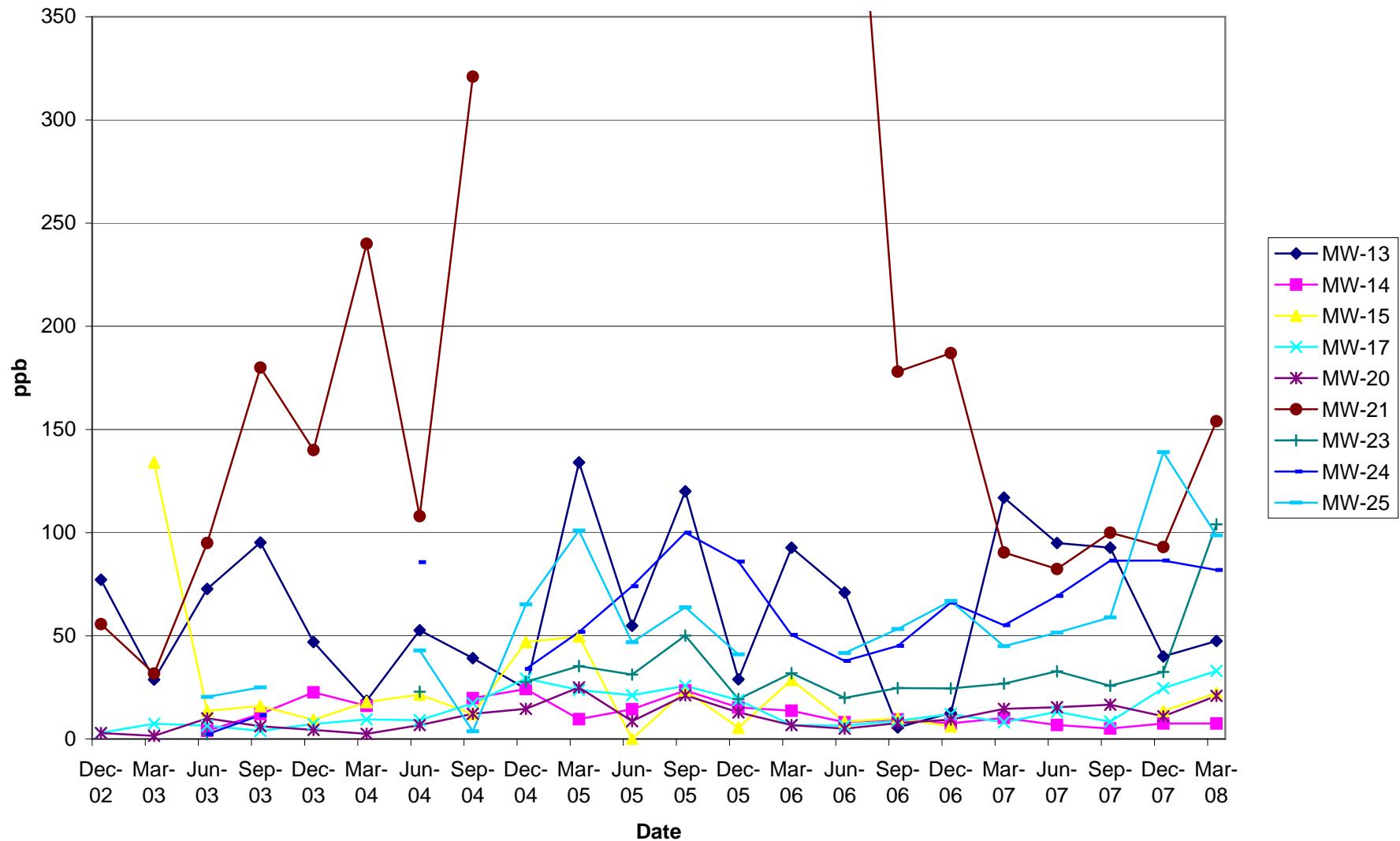
Dissolved Toluene in A1 Wells



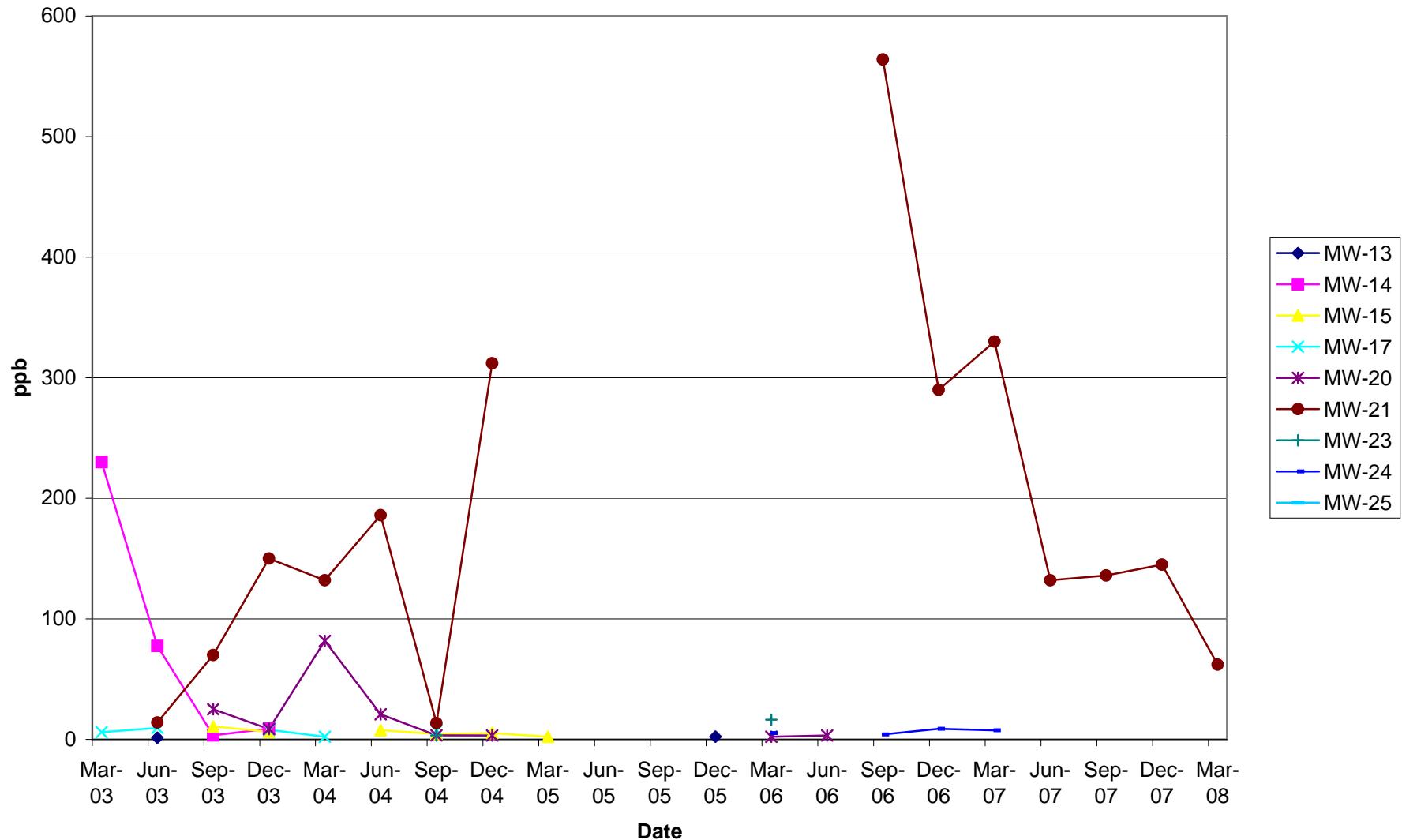
Dissolved PCE in A1 Wells



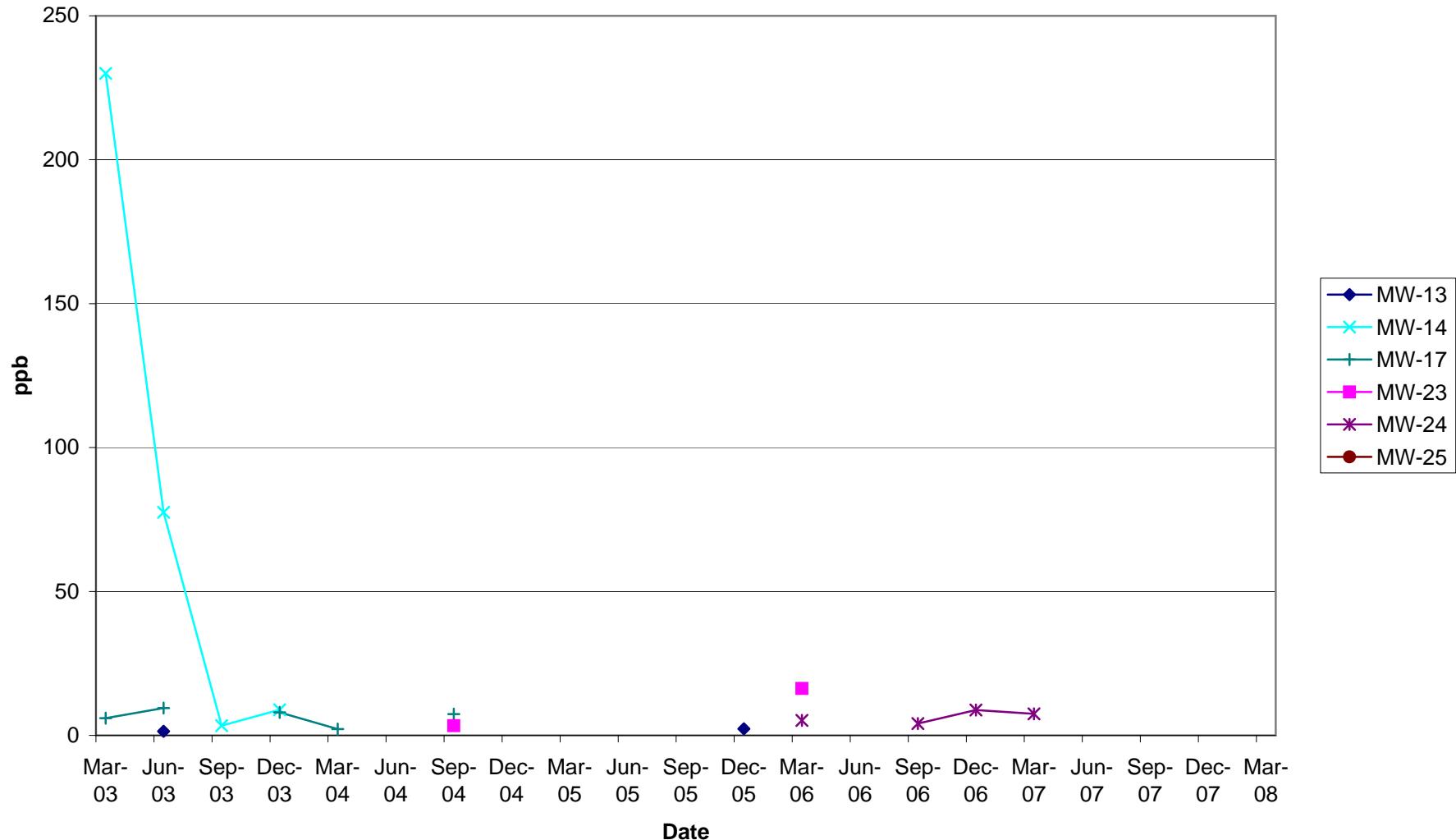
Dissolved TCE in A1 Wells



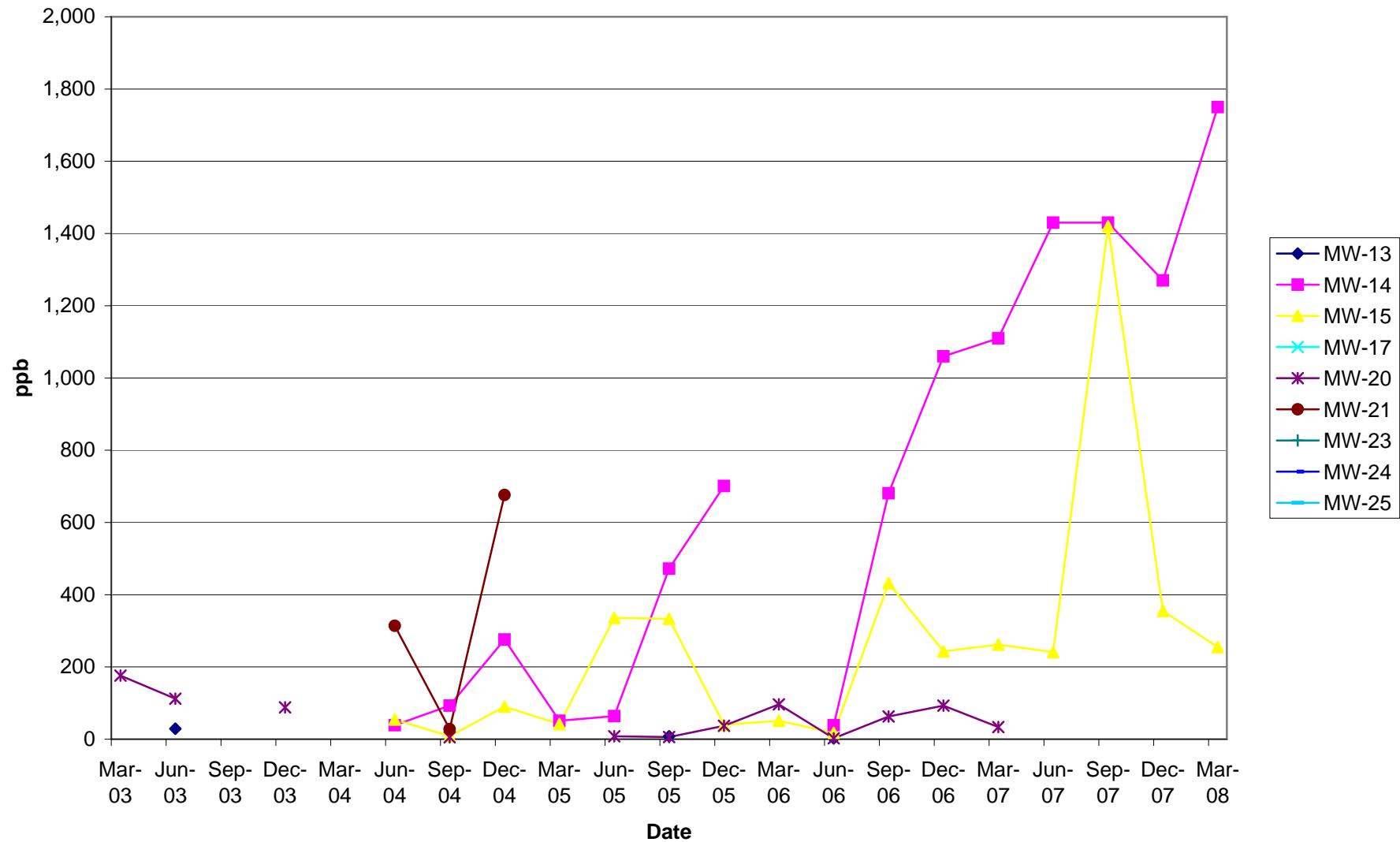
Dissolved 1,1,1-TCA in A1 Wells



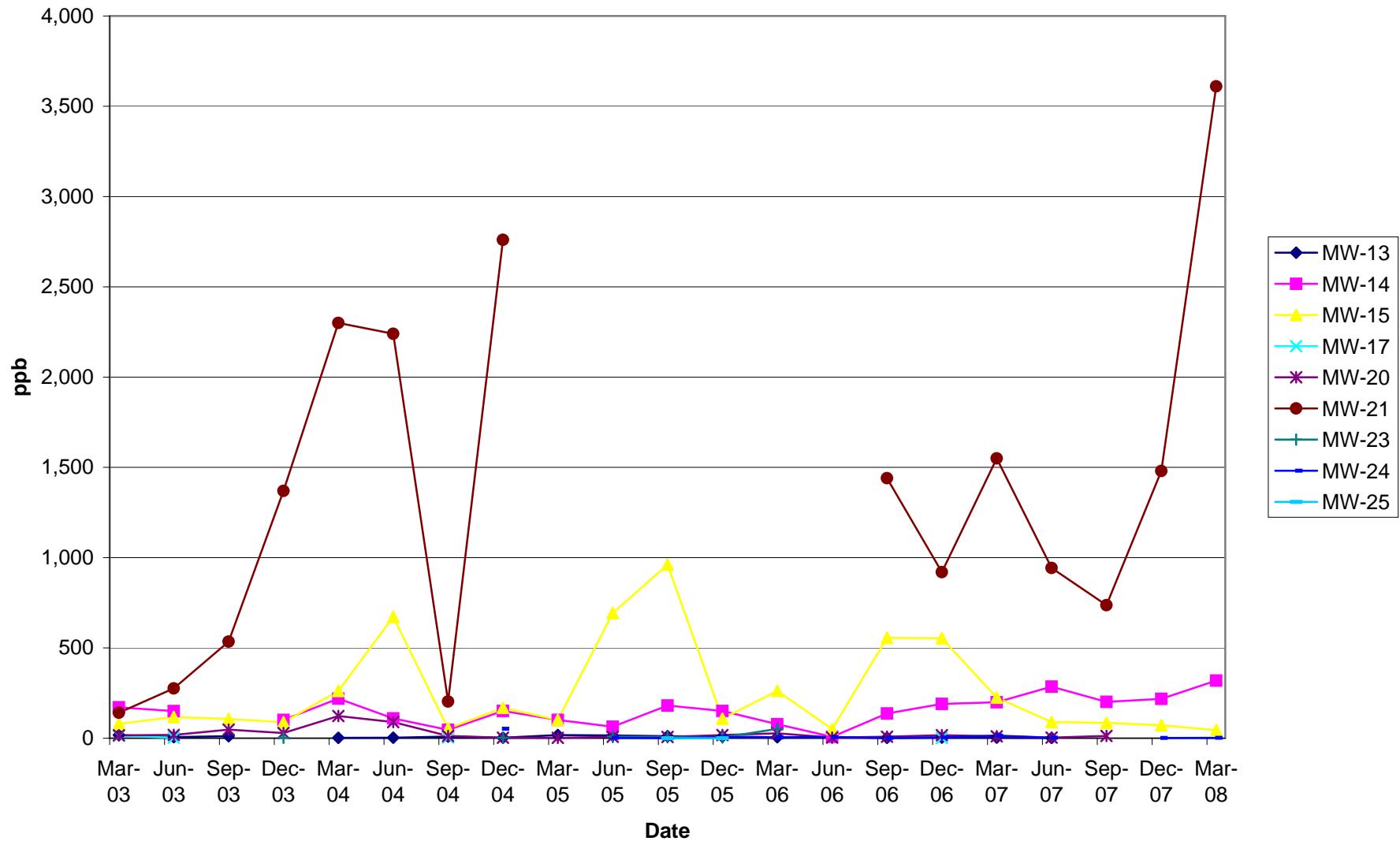
Dissolved 1,1,1-TCA in A1 Wells
(excluding MW-14, MW-20 and MW-21 for smaller scale)



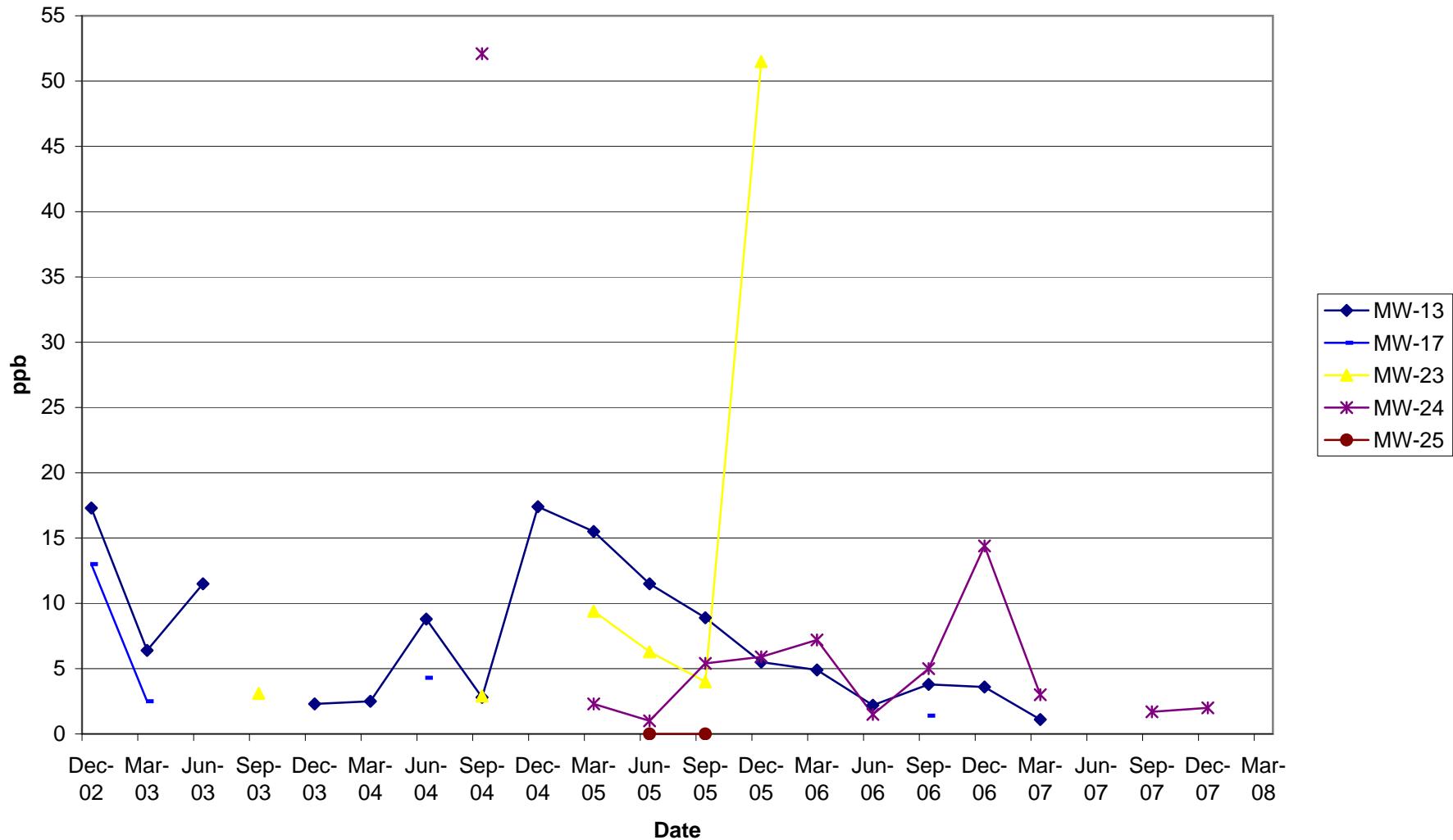
Dissolved 1,4-Dioxane in A1 Wells



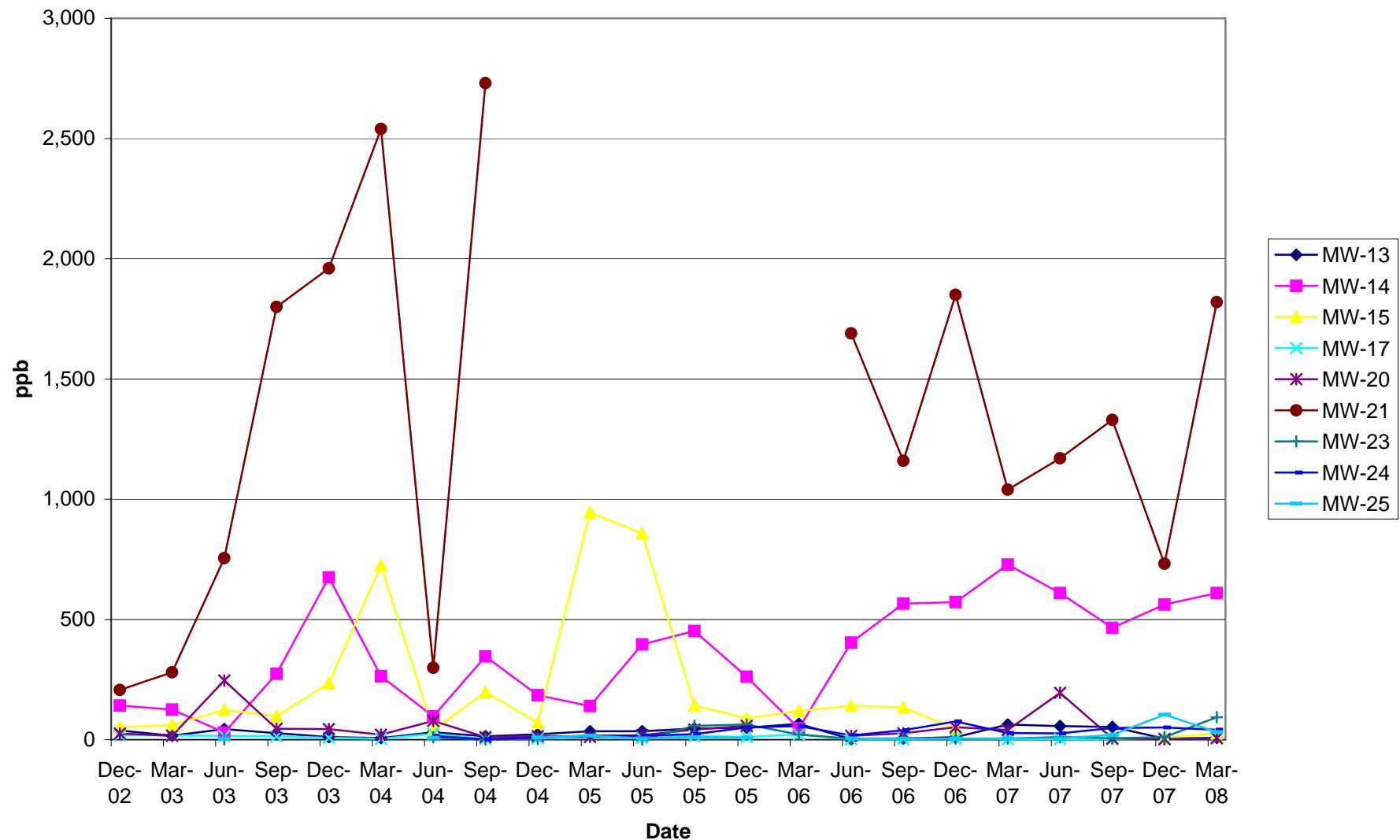
Dissolved 1,1-DCA in A1 Wells



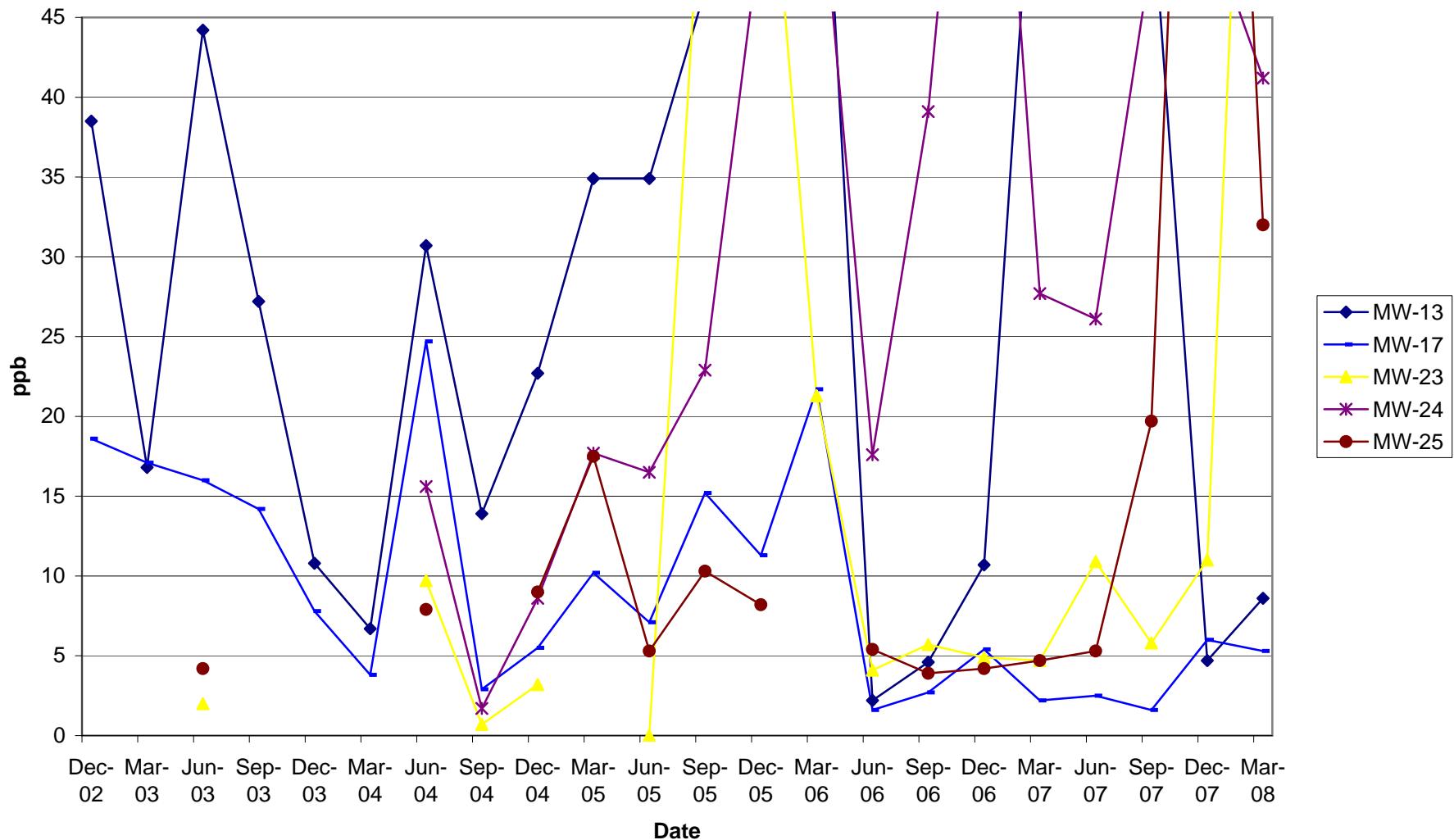
Dissolved 1,1-DCA in A1 Wells
(excluding MW-14, MW-15, MW-20 and MW-21 for smaller scale)



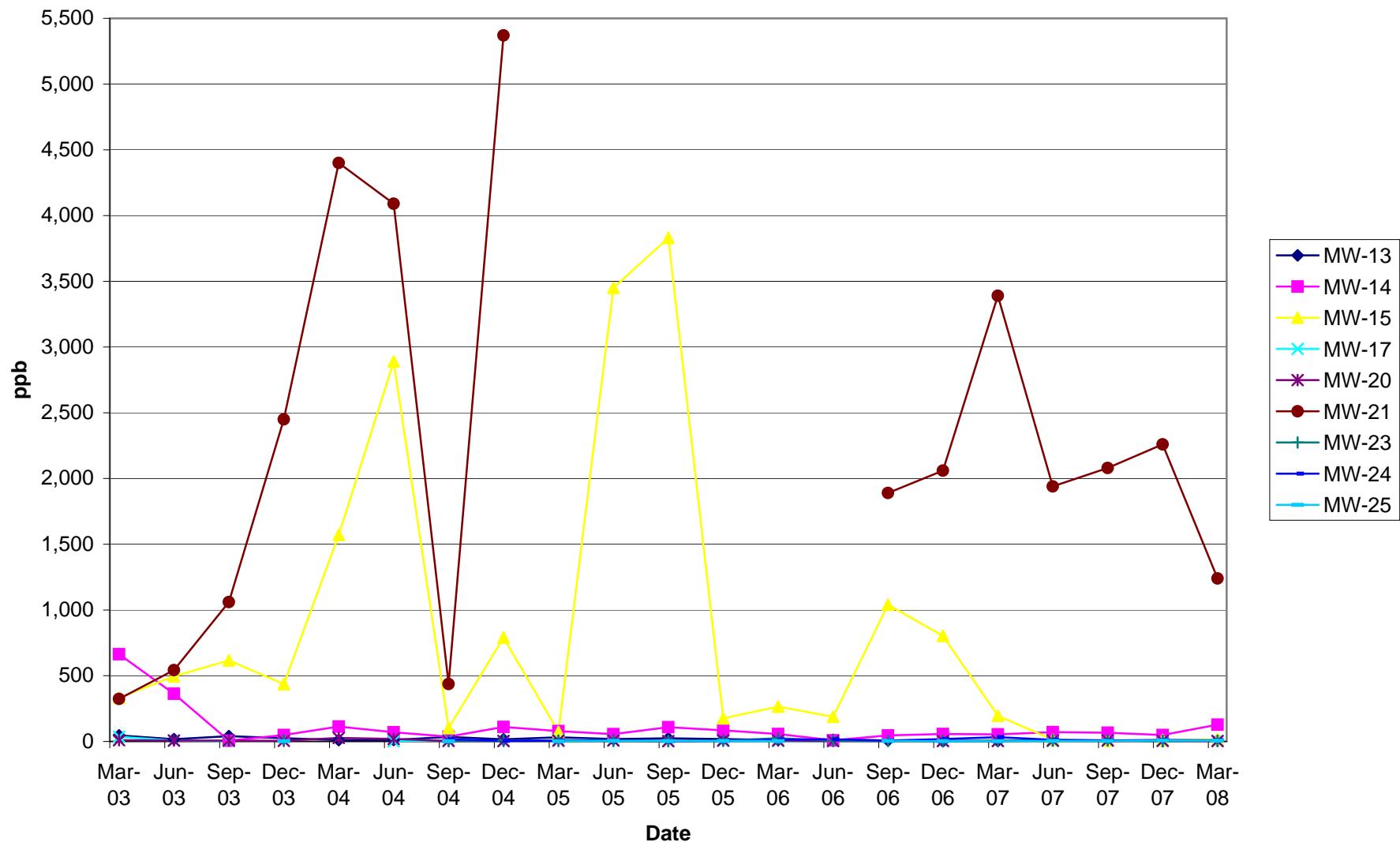
Dissolved 1,1-DCE in A1 Wells



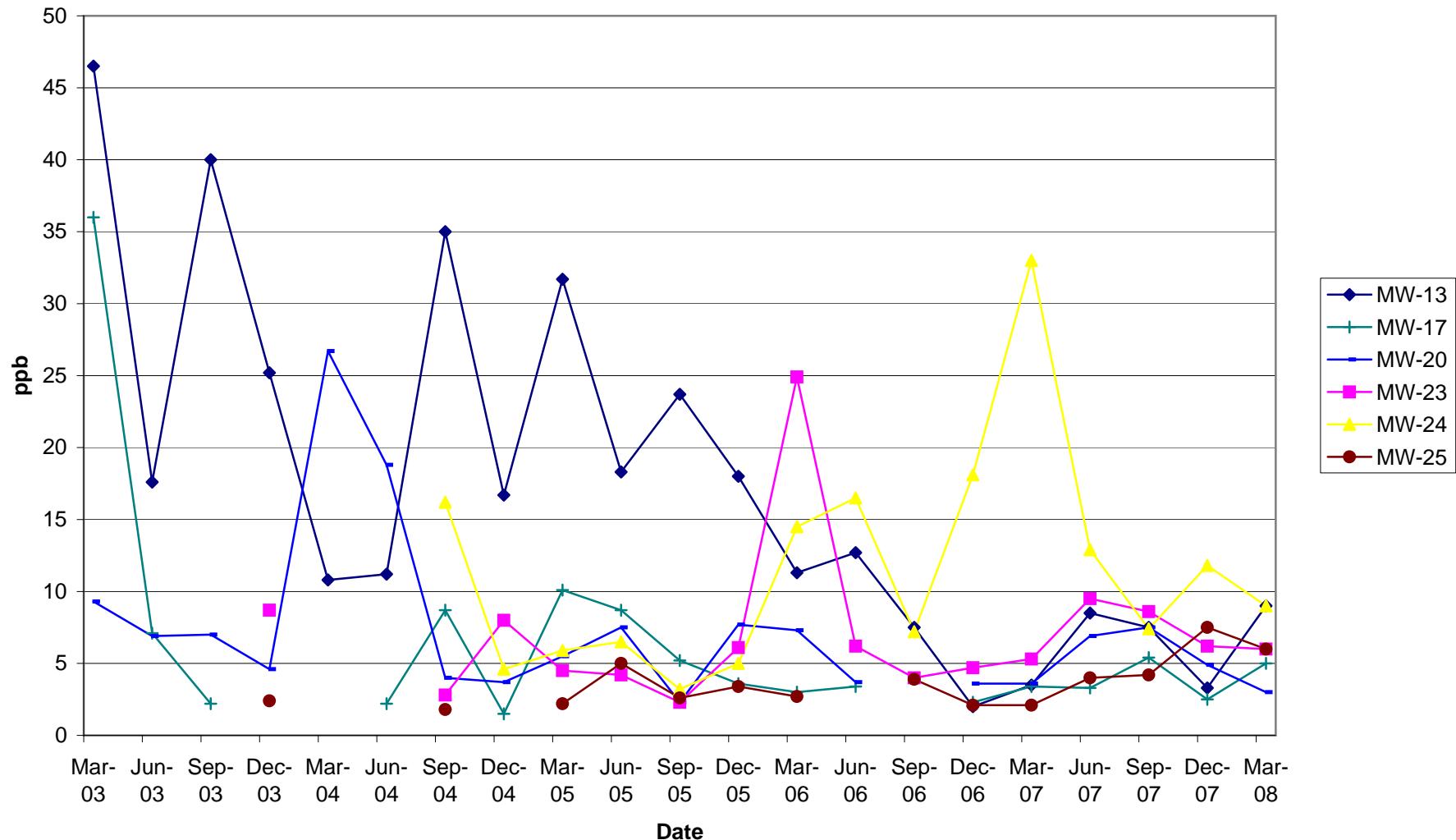
Dissolved 1,1-DCE in A1 Wells
(excluding MW-14, MW-15, MW-20 and MW-21 for smaller scale)



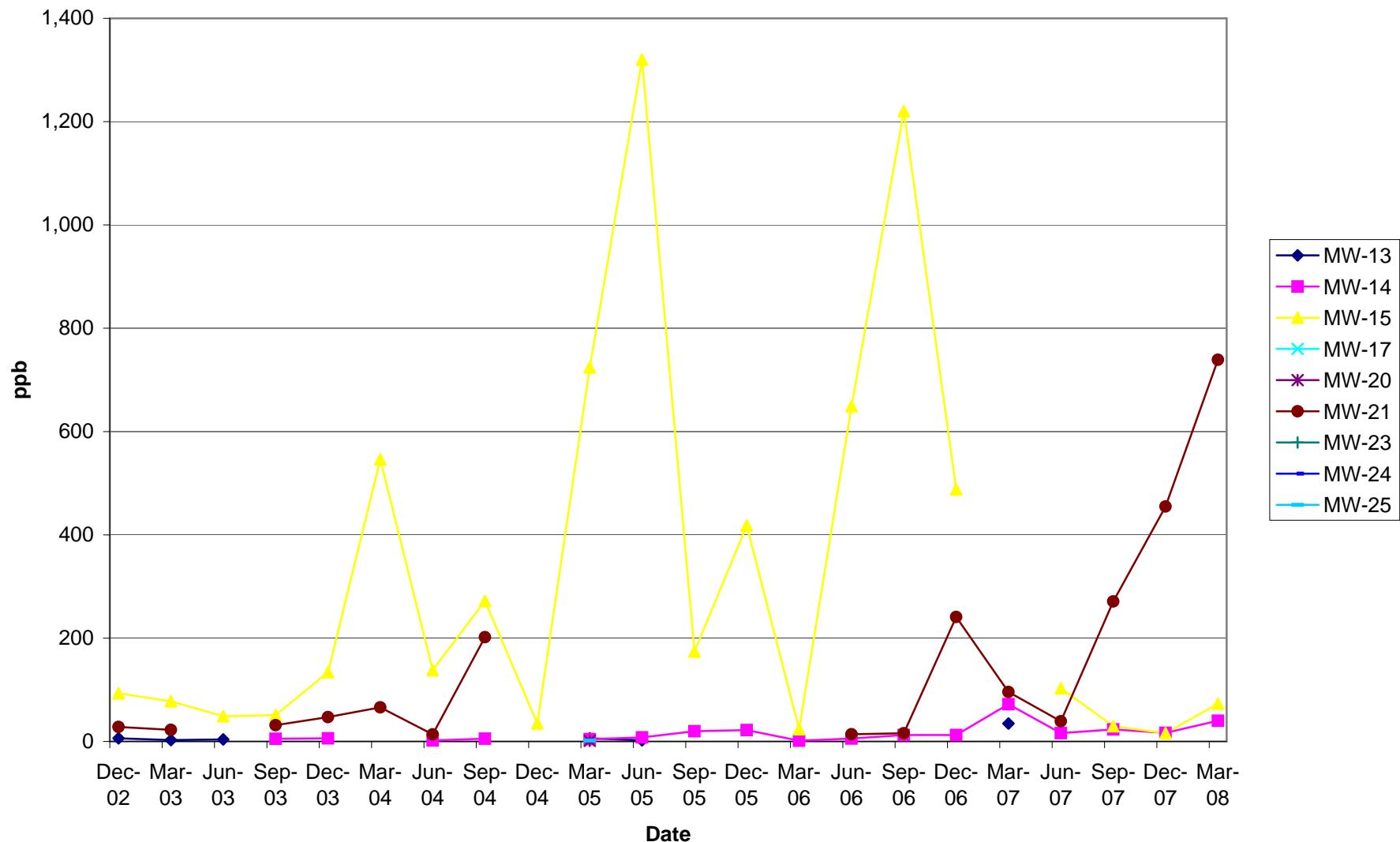
Dissolved Cis-1,2-DCE in A1 Wells



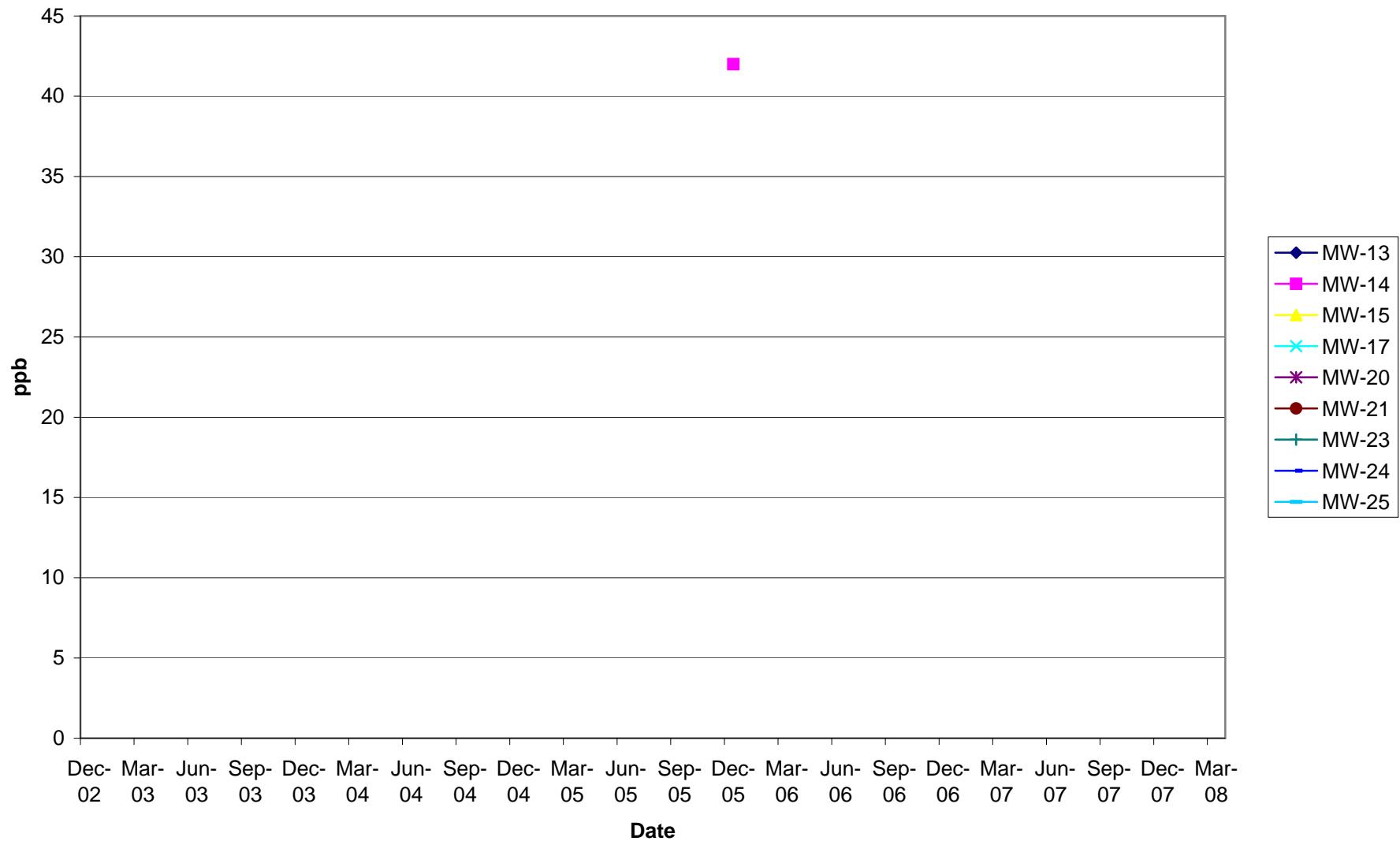
Dissolved Cis-1,2-DCE in A1 Wells
(excluding MW-14, MW-15 and MW-21 for smaller scale)



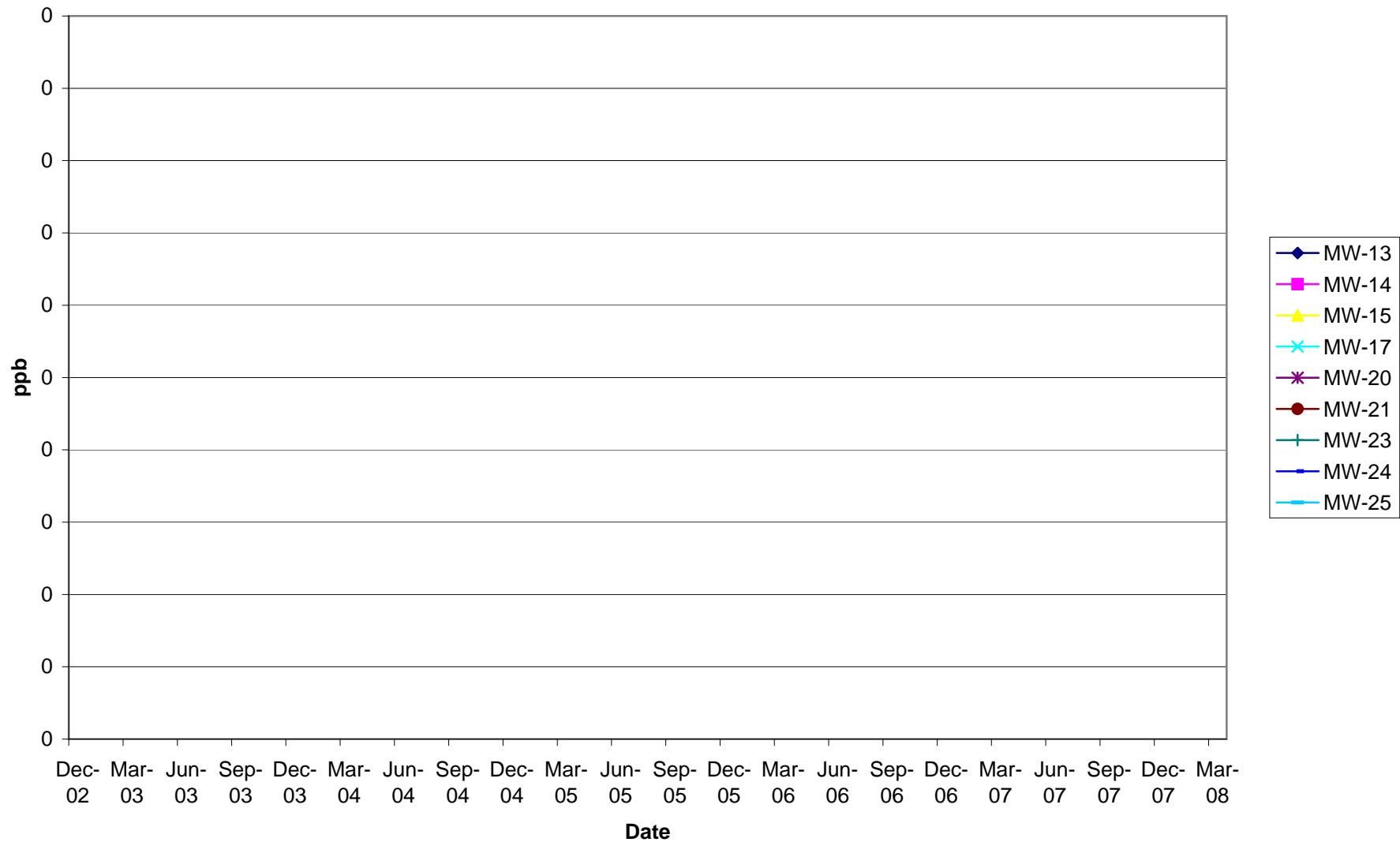
Dissolved Vinyl Chloride in A1 Wells



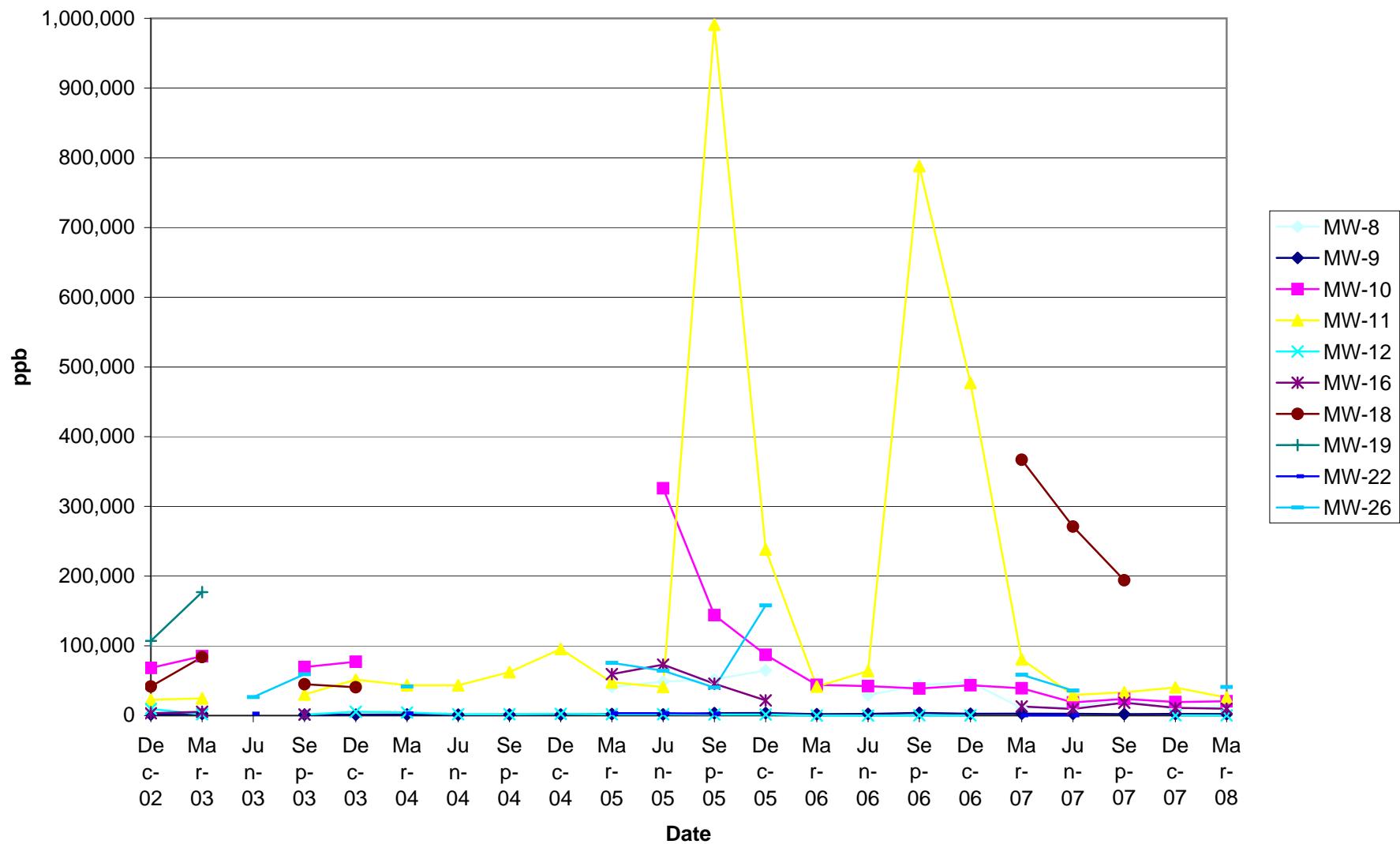
Dissolved Acetone in A1 Wells



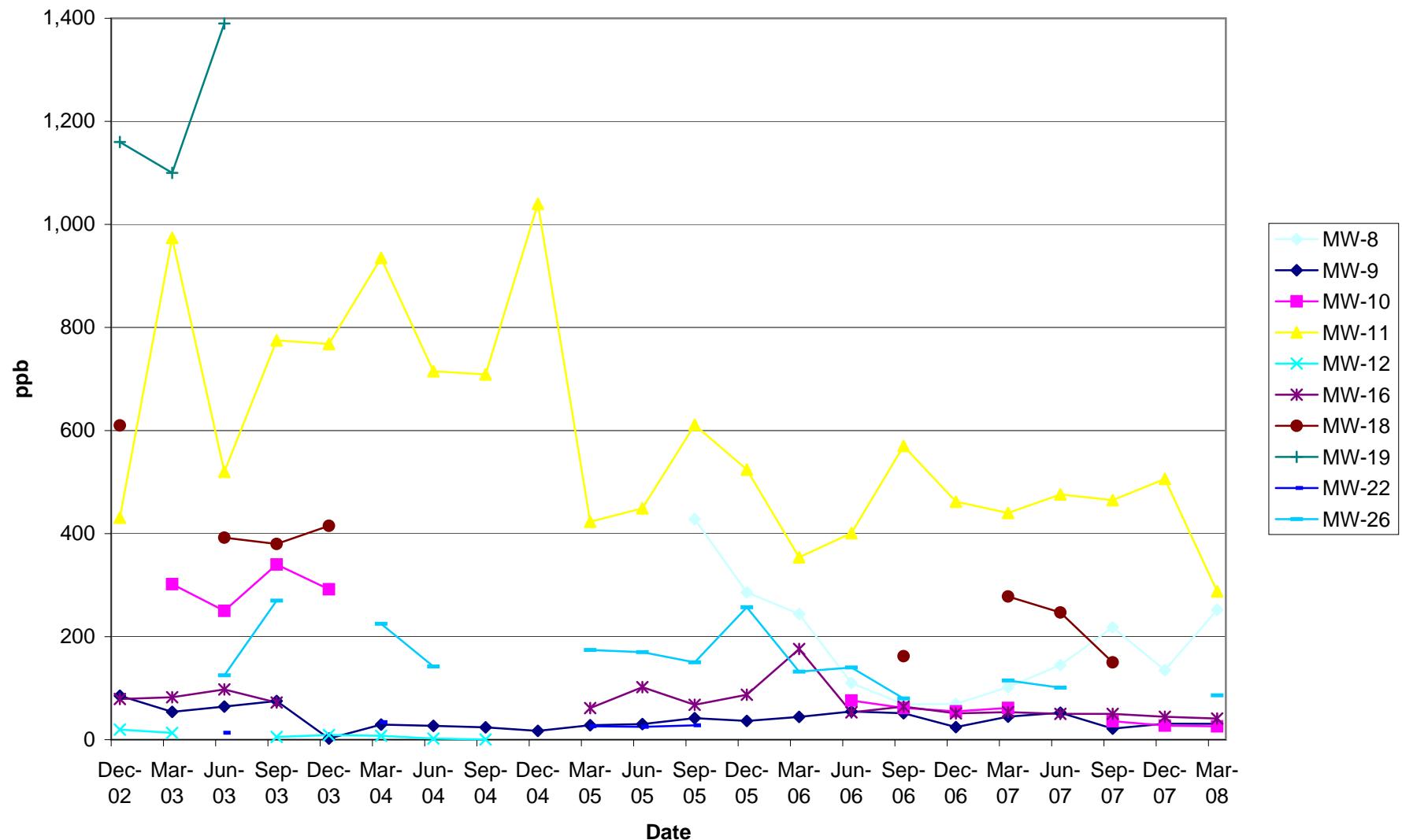
Dissolved MEK in A1 Wells



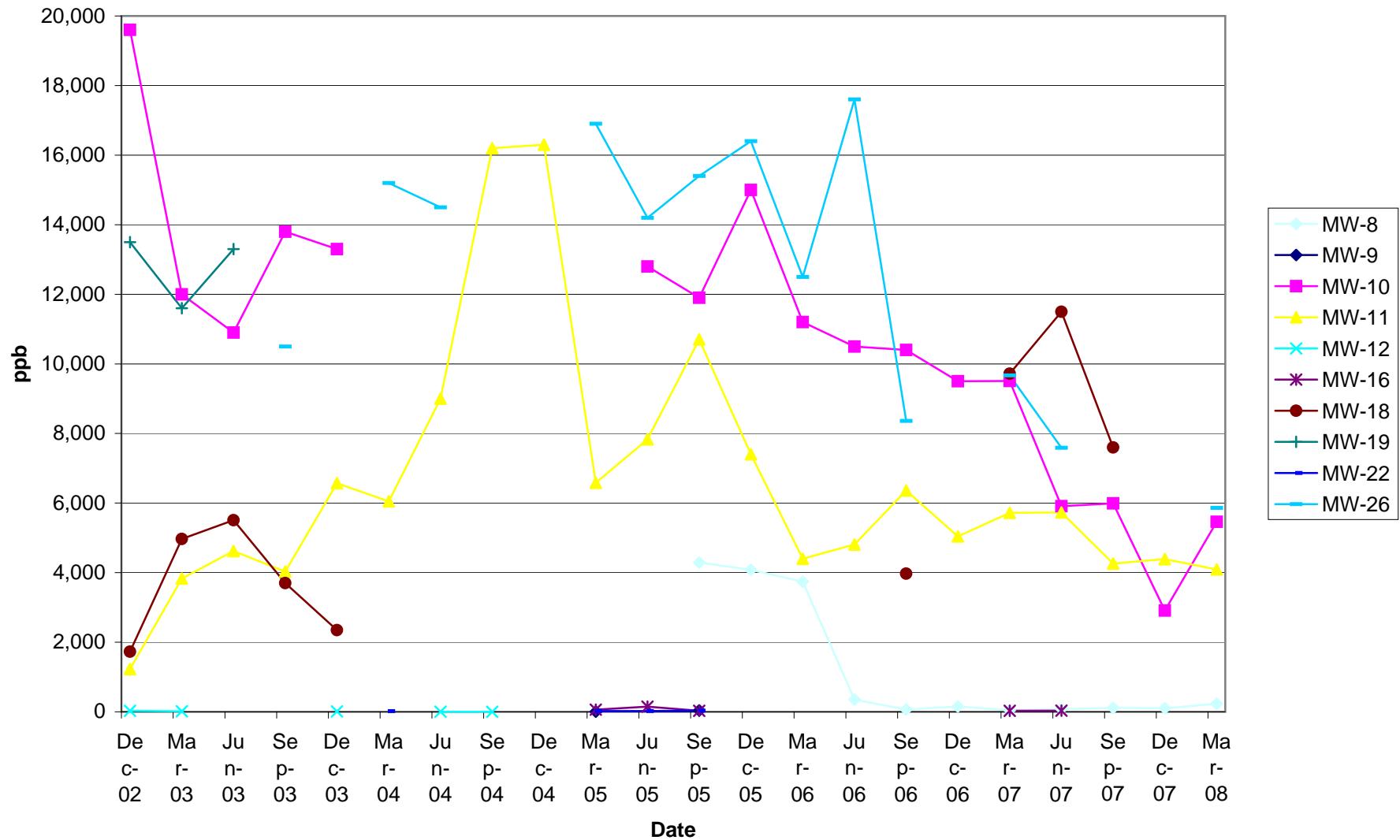
Dissolved TPH-gas in 1st Water Wells



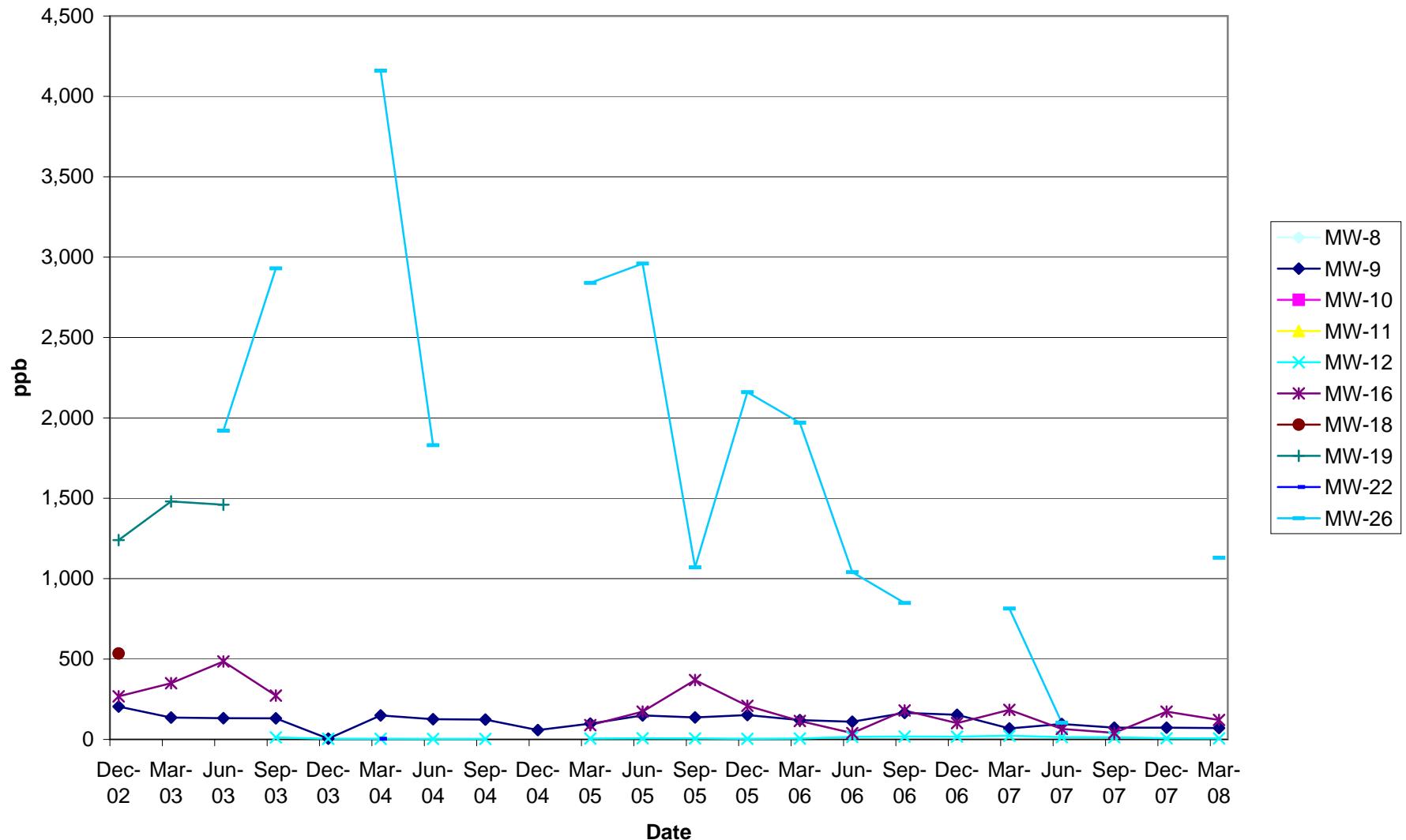
Dissolved Benzene in 1st Water Wells



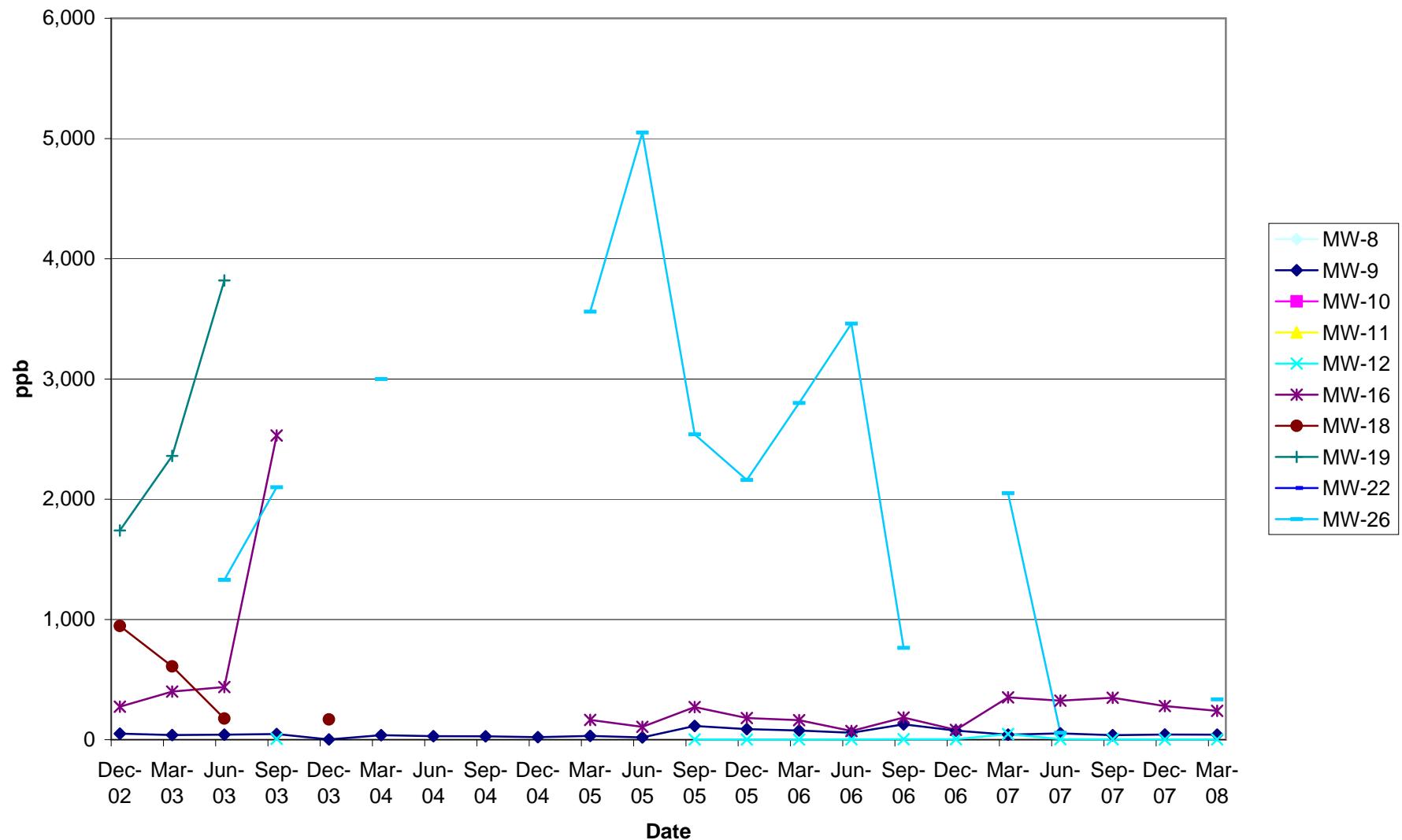
Dissolved Toluene in 1st Water Wells



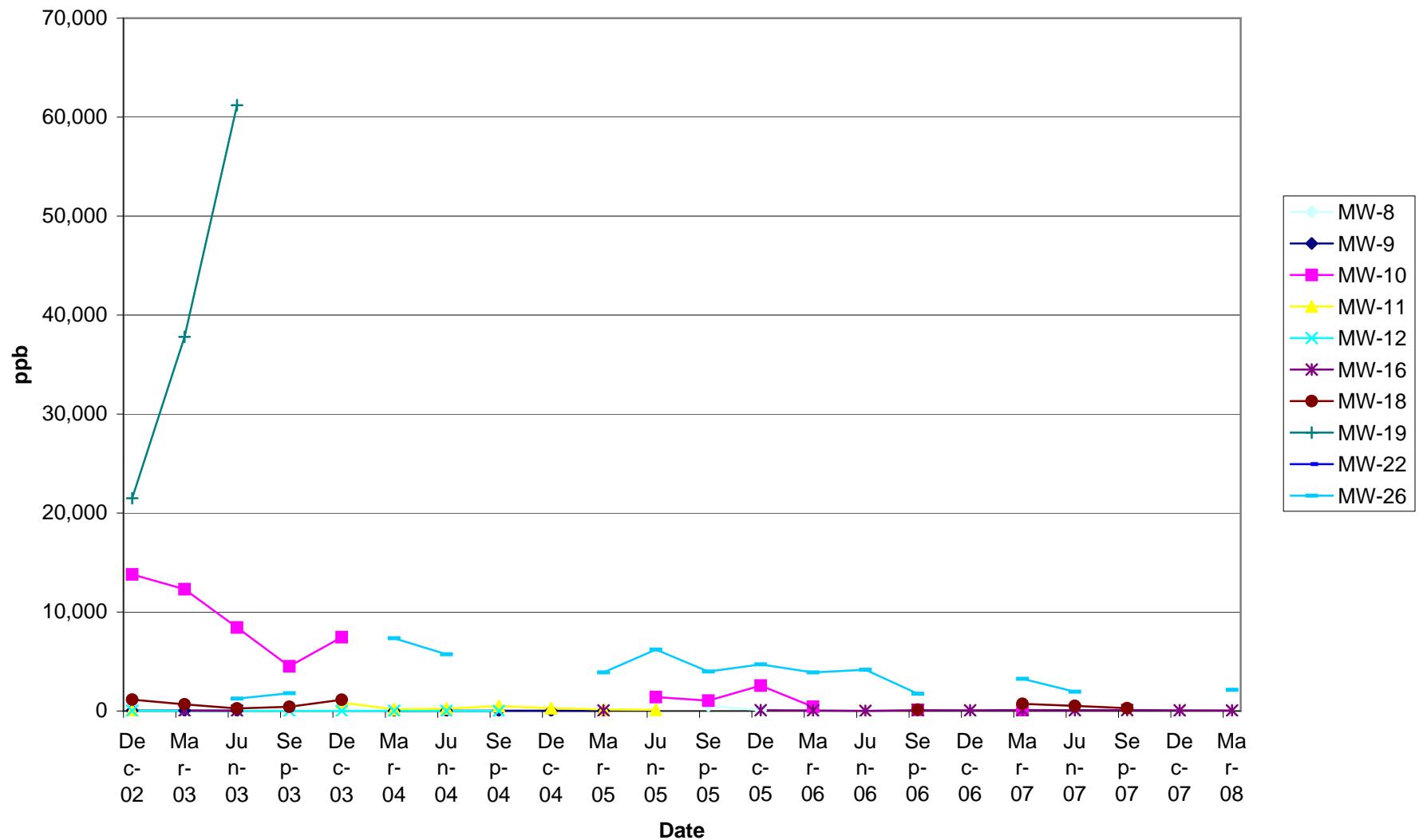
Dissolved PCE in 1st Water Wells



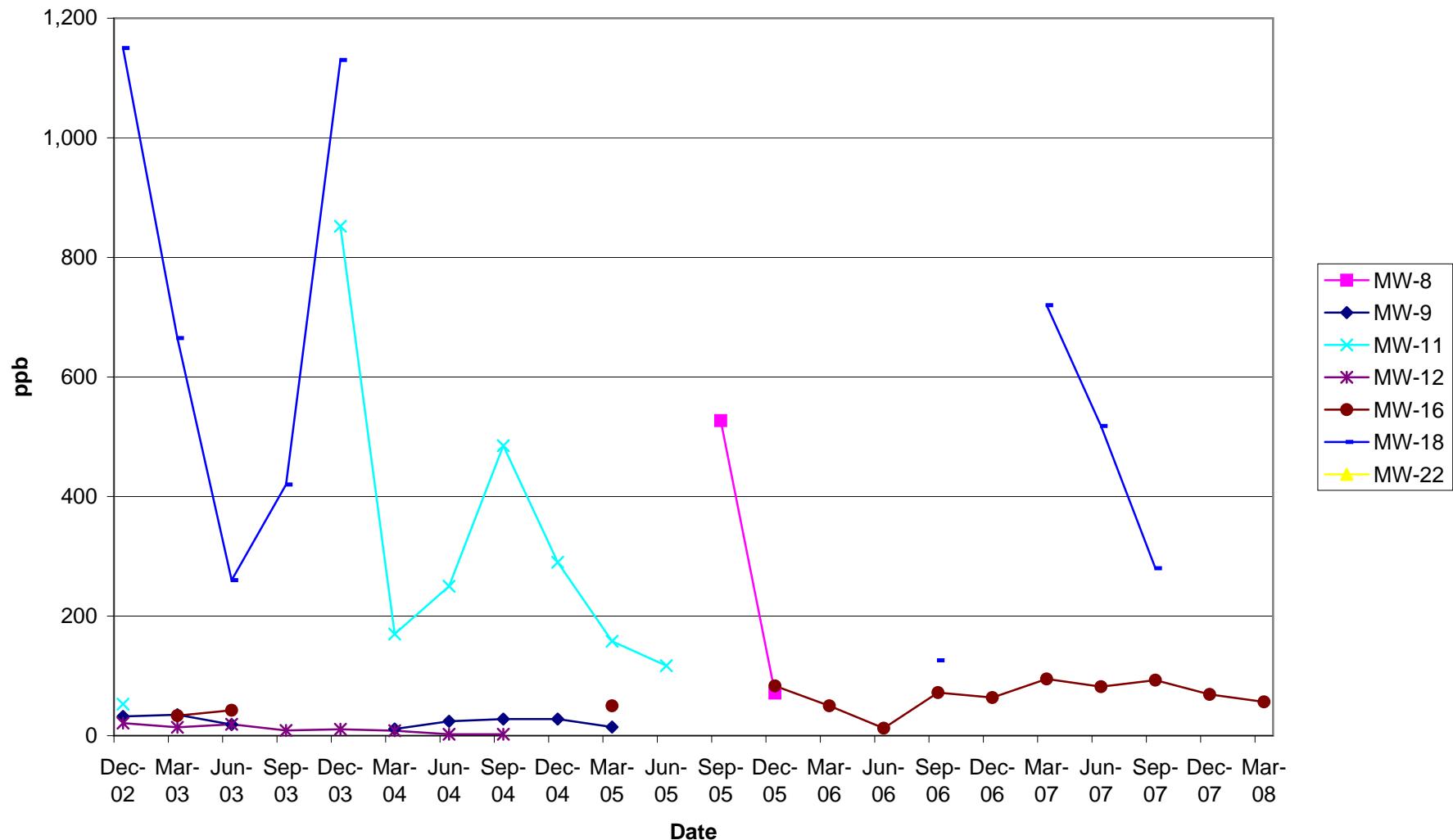
Dissolved TCE in 1st Water Wells



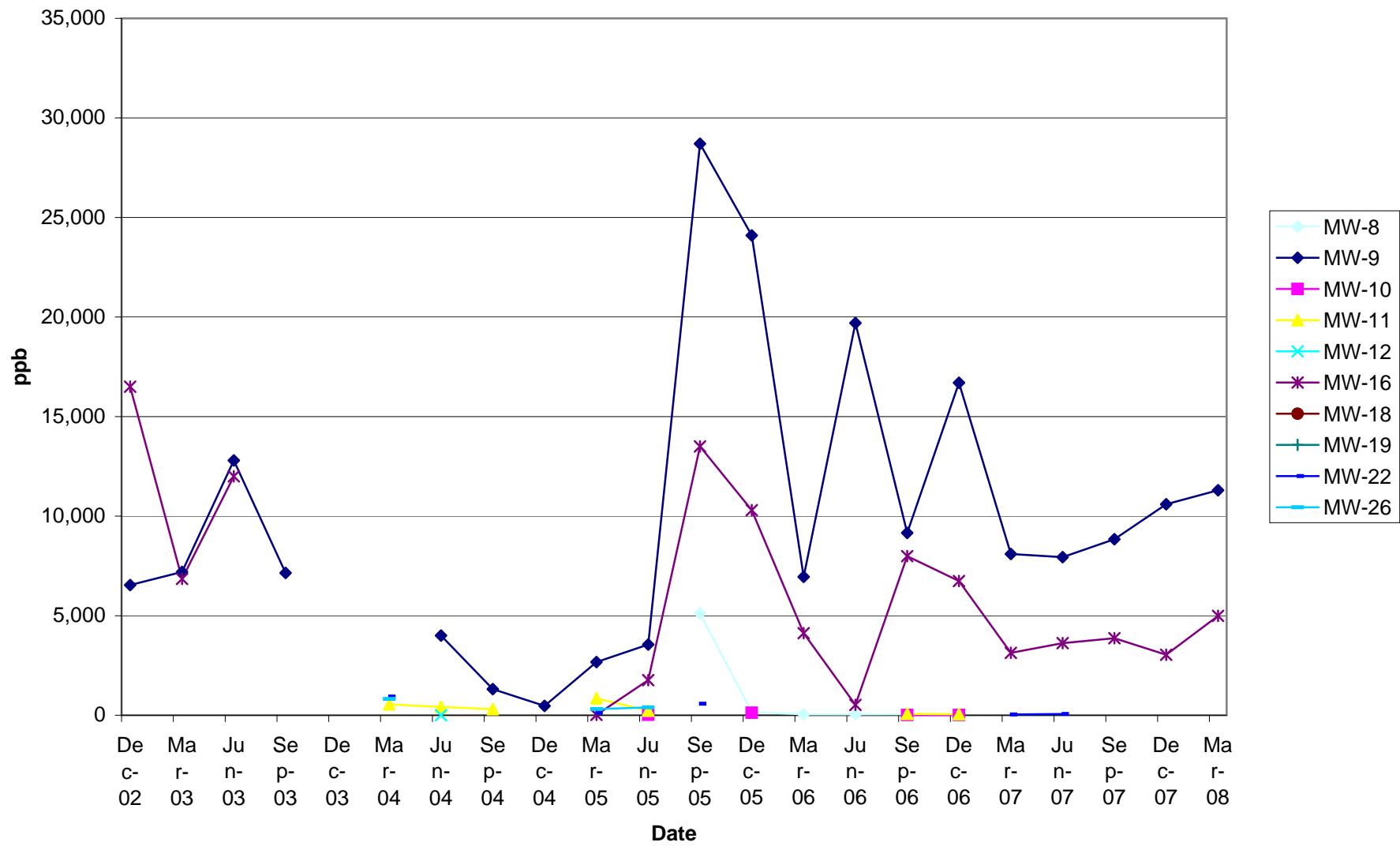
Dissolved 1,1,1-TCA in 1st Water Wells



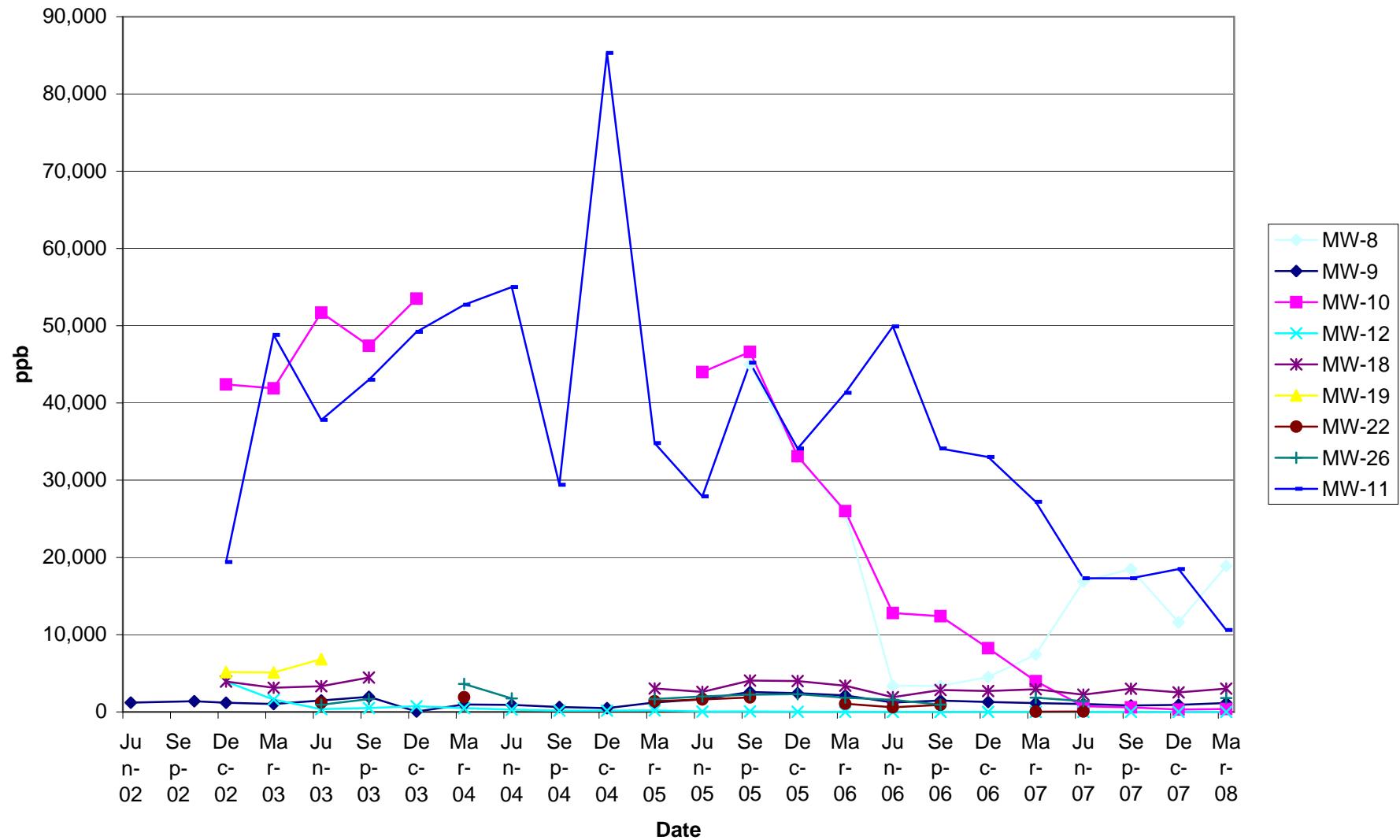
Dissolved 1,1,1-TCA in 1st Water Wells
(excluding MW-10, MW-19 and MW-26 for smaller scale)



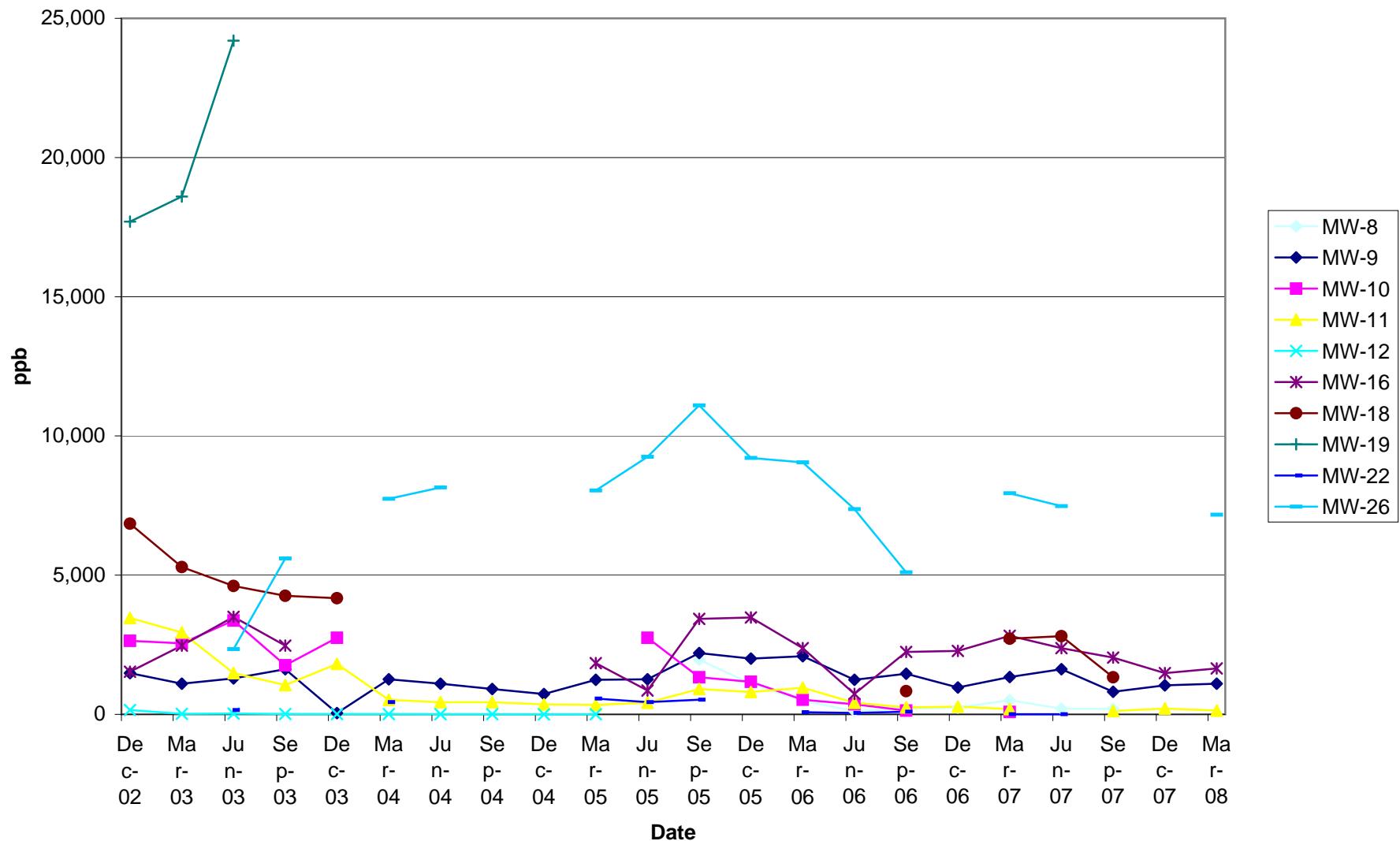
Dissolved 1,4-Dioxane in 1st Water Wells



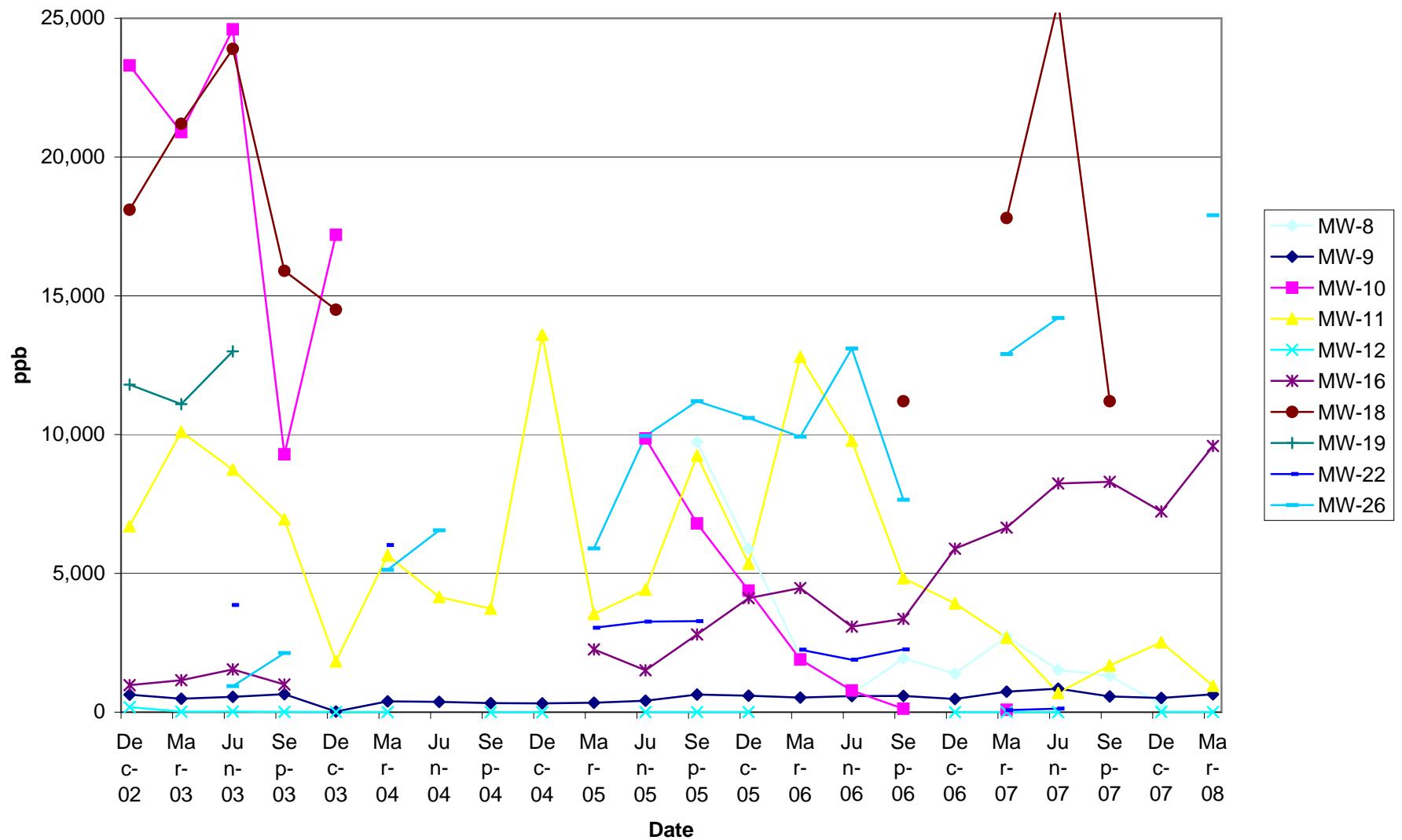
Dissolved 1,1-DCA in 1st Water Wells



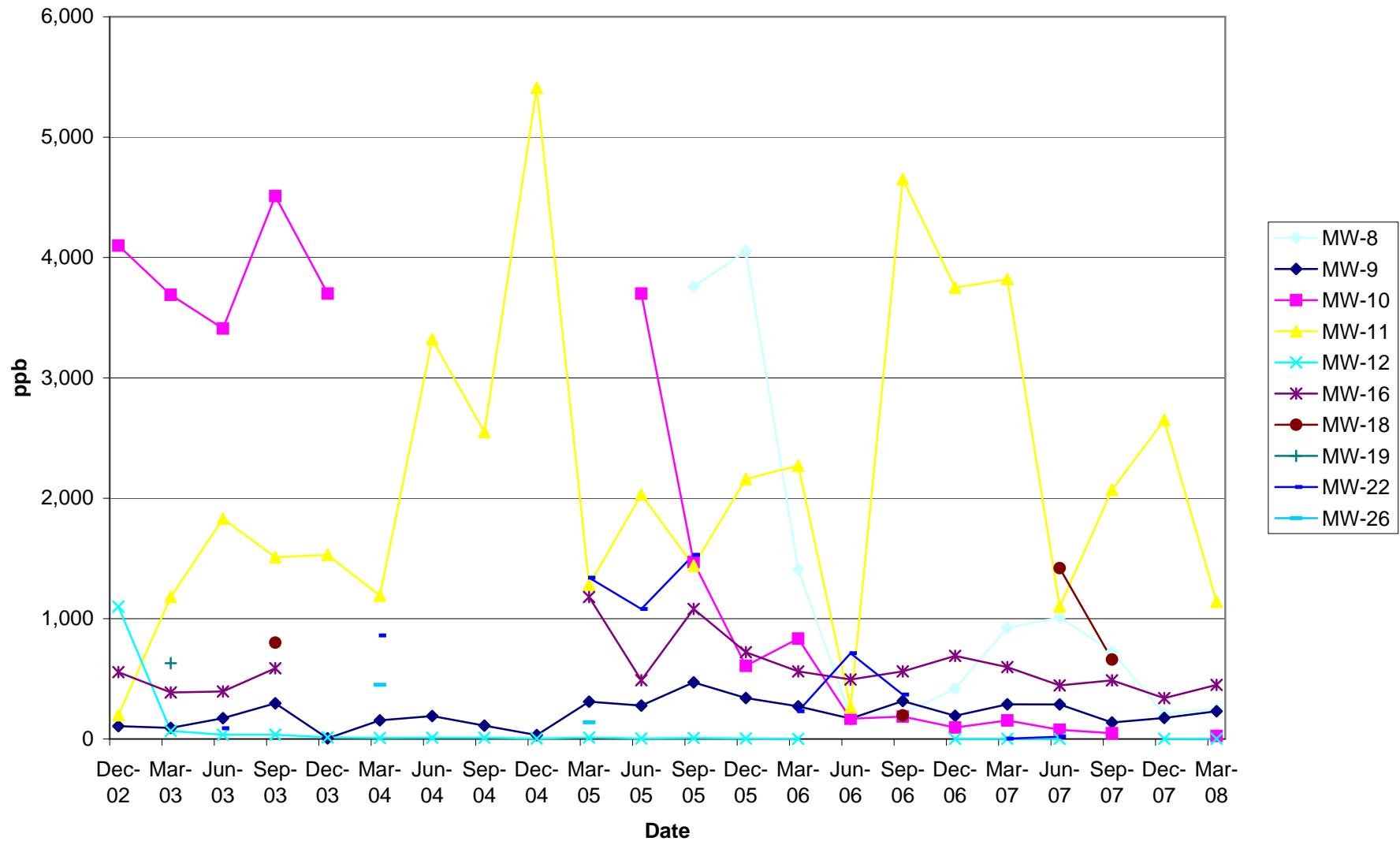
Dissolved 1,1-DCE in 1st Water Wells



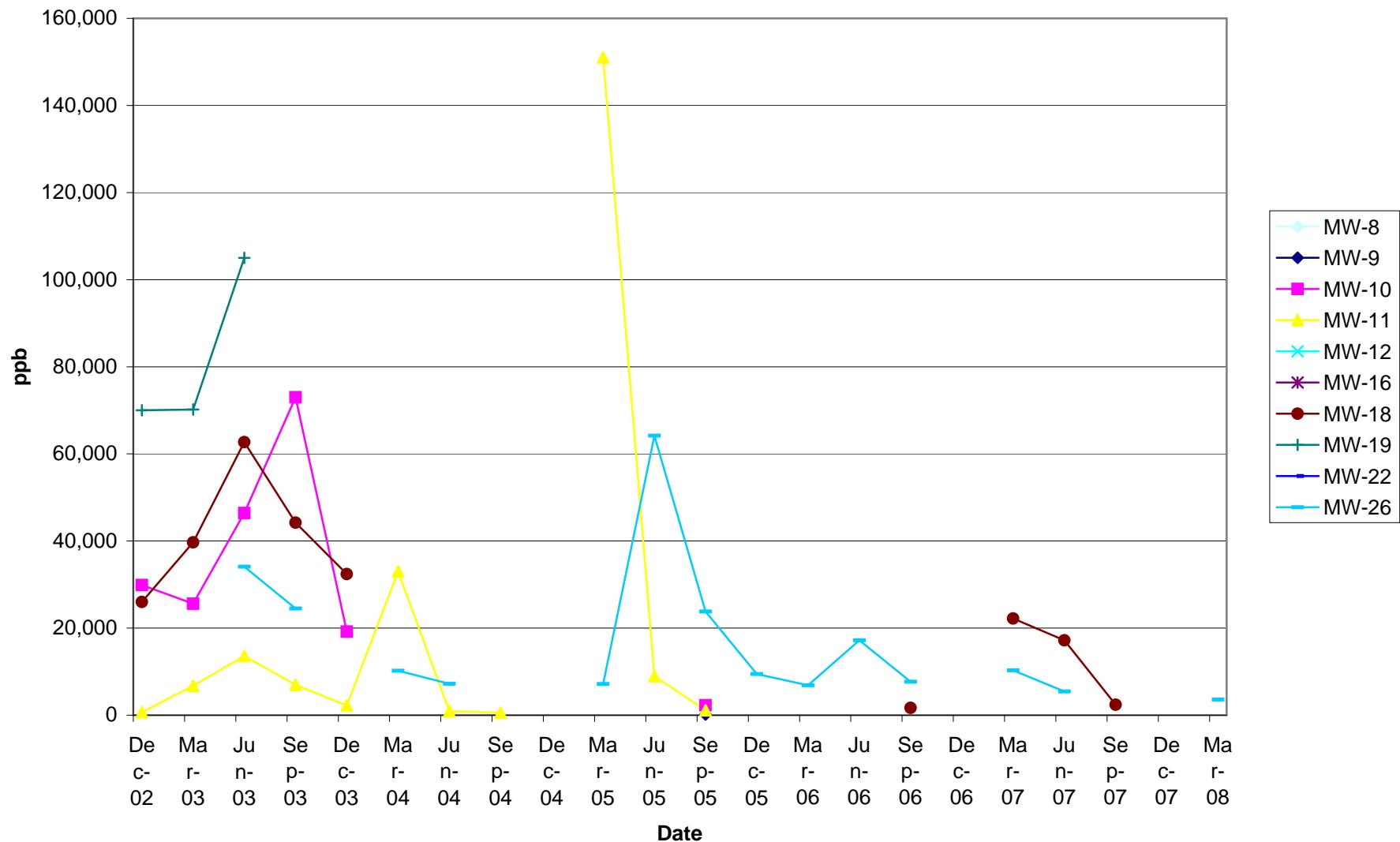
Dissolved Cis-1,2-DCE in 1st Water Wells



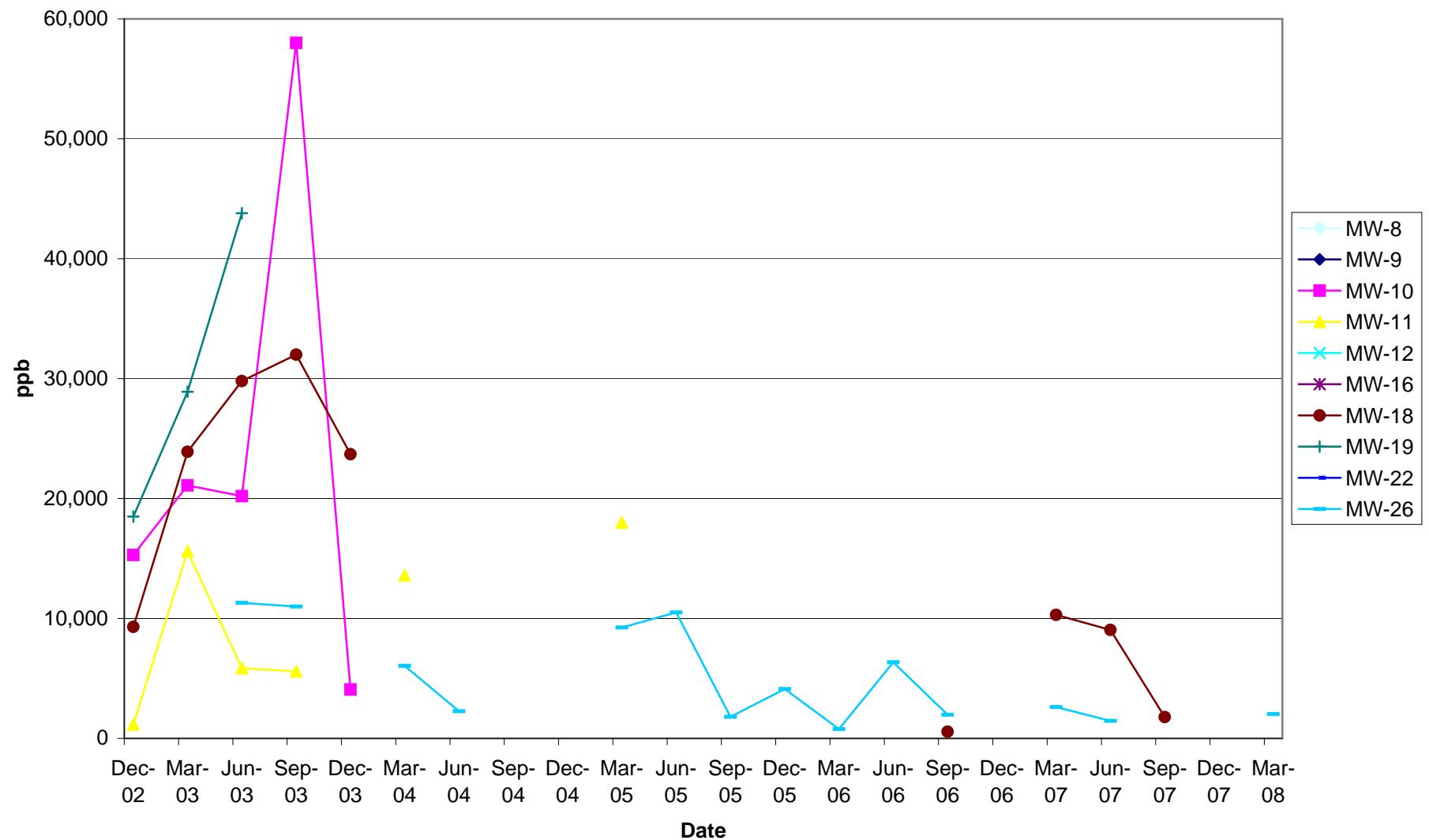
Dissolved Vinyl Chloride in 1st Water



Dissolved Acetone in 1st Water Wells



Dissolved MEK in 1st Water Wells



APPENDIX C

GROUNDWATER LABORATORY

ANALYSIS REPORTS



Alpha Scientific Corporation

Environmental Laboratories

03-24-2008

Mr. Joseph Kennedy
Greve Financial
PO Box 1684
Lomita, CA 90717

Project: Angeles Chemical Co./FACC
Project Site: 8915 Sorensen Ave., Santa Fe Springs, CA
Sample Date: 03-13/14-2008
Lab Job No.: BL803064

Dear Mr. Kennedy:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 03-13/14-2008 and analyzed for the following parameters:

EPA 8015M (Gasoline)
EPA 8260B (VOCs by GC/MS)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is certified by CA DHS (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our Laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.



Alpha Scientific Corporation

Environmental Laboratories

03-24-2008

Client: Greve Financial Lab Job No.: BL803064
Project: Angeles Chemical Co./FACC
Project Site: 8915 Sorensen Ave., Santa Fe Springs, CA Date Sampled: 03-13/14-2008
Matrix: Water Date Received: 03-13/14-2008
Batch No.: BMC20-GW1 Date Analyzed: 03-20-2008

EPA 8015M (Gasoline)
Reporting Units: µg/L (ppb)

Sample ID	Lab ID	C4-C12 (Gasoline Range)	Method Detection Limit	PQL
Method Blank		ND	50	50
MW-8	BL803064-15	14,300	50	50
MW-9	BL803064-1	2,100	50	50
MW-10	BL803064-2	20,400	50	50
MW-10 Dup	BL803064-3	21,500	50	50
MW-11	BL803064-16	25,700	50	50
MW-12	BL803064-4	135	50	50
MW-13	BL803064-5	260	50	50
MW-14	BL803064-17	789	50	50
MW-15	BL803064-6	310	50	50
MW-16	BL803064-7	9,770	50	50
MW-17	BL803064-8	210	50	50
MW-20	BL803064-18	153	50	50
MW-21	BL803064-9	5,210	50	50
MW-23	BL803064-11	414	50	50
MW-24	BL803064-12	402	50	50
MW-25	BL803064-13	154	50	50
MW-26	BL803064-14	40,900	50	50
Trip Blank	BL803064-10	ND	50	50

PQL: Practical Quantitation Limit.



Alpha Scientific Corporation

Environmental Laboratories

Client: Greve Financial

Project: Angeles Chemical Co./FACC

Lab Job No.: BL803064

Matrix: Water

Date Reported: 03-24-2008

Date Sampled: 03-13/14-2008

EPA 8260B (VOCs by GC/MS, Page 1 of 2)

Reporting Unit: ppb

DATE ANALYZED	03-20	03-20-08	03-20-08	03-20-08	03-20-08	03-20-08	03-20-08
DILUTION FACTOR		100	10	20	20	100	1
LAB SAMPLE I.D.		BL80306 4-15	BL80306 4-1	BL80306 4-2	BL80306 4-3	BL80306 4-16	BL80306 4-4
CLIENT SAMPLE I.D.		MW-8	MW-9	MW-10	MW10 Dup	MW-11	MW-12
COMPOUND	MDL	PQL	MB				
Dichlorodifluoromethane	2	5	ND	ND	ND	ND	ND
Chloromethane	2	5	ND	ND	ND	ND	ND
Vinyl Chloride	1	2	ND	247	230	24.8J	23.0J
Bromomethane	2	5	ND	ND	ND	ND	ND
Chloroethane	2	5	ND	ND	ND	1,290	1,300
Trichlorofluoromethane	2	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	2	5	ND	ND	1,100	ND	137J
Iodomethane	2	5	ND	ND	ND	ND	ND
Methylene Chloride	2	5	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	2	5	ND	ND	ND	ND	ND
1,1-Dichloroethane	1	2	ND	18,900*	1,150	376	369
2,2-Dichloropropane	2	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	2	5	ND	ND	641	ND	950
Bromochloromethane	2	5	ND	ND	ND	ND	ND
Chloroform	2	5	ND	ND	ND	ND	ND
1,2-Dichloroethane	2	5	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	5	ND	ND	ND	ND	ND
Carbon tetrachloride	2	5	ND	ND	ND	ND	ND
1,1-Dichloropropene	2	5	ND	ND	ND	ND	ND
Benzene	1	1	ND	252	30.9	26.0	26.4
Trichloroethene	2	2	ND	ND	41.4	ND	ND
1,2-Dichloropropene	2	5	ND	ND	ND	ND	ND
Bromodichloromethane	2	5	ND	ND	ND	ND	ND
Dibromomethane	2	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	2	5	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	2	5	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	2	5	ND	ND	ND	ND	ND
1,3-Dichloropropane	2	5	ND	ND	ND	ND	ND
Dibromochloromethane	2	5	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	2	5	ND	ND	ND	ND	ND
Bromoform	2	5	ND	ND	ND	ND	ND
Isopropylbenzene	2	5	ND	ND	ND	ND	ND
Bromobenzene	2	5	ND	ND	ND	ND	ND



Alpha Scientific Corporation
Environmental Laboratories

Client: Greve Financial

Lab Job No.: BL803064

Date Reported: 03-24-2008

Project: Angeles Chemical Co./FACC

Matrix: Water

Date Sampled: 03-13/14-2008

EPA 8260B (VOCs by GC/MS, Page 2 of 2)

Reporting Unit: (ppb)

COMPOUND	MDL	PQL	MB	MW-8	MW-9	MW-10	MW10 Dup	MW-11	MW-12
Toluene	1	1	ND	233	ND	5,460	5,940	4,090	ND
Tetrachloroethene	2	2	ND	ND	70.8	ND	ND	ND	6.2
1,2-Dibromoethane(EDB)	2	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	2	5	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	1	ND	456	ND	ND	375	1,270	ND
Total Xylenes	2	2	ND	173J	ND	4,020	4,450*	3,110	ND
Styrene	2	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	2	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	2	5	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	2	5	ND	ND	ND	948	1,060	172J	ND
2-Chlorotoluene	2	5	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	2	5	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	2	5	ND	ND	ND	418	482	641	ND
tert-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	2	5	ND	204J	ND	1,550	1,800	1,640	ND
Sec-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND	2.1J
1,3-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	2	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND	1.3J
1,2,4-Trichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	2	5	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	2	5	ND	ND	ND	ND	ND	ND	ND
Naphthalene	2	5	ND	ND	ND	209	246	ND	ND
1,2,3-Trichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
Acetone	5	25	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	5	25	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	5	25	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	5	25	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	5	25	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	5	25	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	50	100	ND	ND	11,300	ND	ND	ND	ND
MTBE	2	2	ND	ND	ND	ND	ND	ND	ND
ETBE	2	2	ND	ND	ND	ND	ND	ND	ND
DIPE	2	2	ND	ND	ND	ND	ND	ND	ND
TAME	2	2	ND	ND	ND	ND	ND	ND	ND
T-Butyl Alcohol	10	10	ND	ND	ND	ND	ND	ND	ND

*: Obtained from a higher dilution analysis L : Obtained from a lower dilution analysis.

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank; ND=Not Detected (below DF ×MDL), j=trace concentration. SV=sample in special vial.



Alpha Scientific Corporation

Environmental Laboratories

Client: Greve Financial

Lab Job No.: BL803064

Date Reported: 03-24-2008

Project: Angeles Chemical Co./FACC

Matrix: Water

Date Sampled: 03-13/14-2008

EPA 8260B (VOCs by GC/MS, Page 1 of 2)

Reporting Unit: ppb

DATE ANALYZED		03-20	03-20-08	03-20-08	03-20-08	03-20-08	03-20-08	03-20-08
DILUTION FACTOR		1	2	5	1	50	1	1
LAB SAMPLE I.D.			BL803064 -5	BL803064 -17	BL803064 -6	BL803064 -7	BL803064 -8	BL803064 -18
CLIENT SAMPLE I.D.			MW-13	MW-14	MW-15	MW-16	MW-17	MW-20
COMPOUND	MDL	PQL	MB					
Dichlorodifluoromethane	2	5	ND	ND	ND	ND	ND	ND
Chloromethane	2	5	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1	2	ND	ND	40.1	73.2	449	ND
Bromomethane	2	5	ND	ND	ND	ND	ND	ND
Chloroethane	2	5	ND	ND	ND	93.2	ND	ND
Trichlorofluoromethane	2	5	ND	2.7J	ND	ND	ND	ND
1,1-Dichloroethene	2	5	ND	8.6	610	25.7	1,650	5.3
Iodomethane	2	5	ND	ND	ND	ND	ND	ND
Methylene Chloride	2	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	2	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1	2	ND	ND	379	94.5	3,010	ND
2,2-Dichloropropane	2	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	2	5	ND	10.2	177	63.3	9,590	10.6
Bromochloromethane	2	5	ND	ND	ND	ND	ND	ND
Chloroform	2	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	2	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	5	ND	ND	ND	ND	56.5J	ND
Carbon tetrachloride	2	5	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
Benzene	1	1	ND	ND	6.8	22.2	41.0J	ND
Trichloroethene	2	2	ND	47.5	7.5J	22.2	240	33.0
1,2-Dichloropropane	2	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	2	5	ND	ND	ND	ND	ND	ND
Dibromomethane	2	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	2	5	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	2	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	2	5	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	2	5	ND	ND	ND	ND	ND	ND
Bromoform	2	5	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2	5	ND	ND	ND	ND	ND	ND
Bromobenzene	2	5	ND	ND	ND	ND	ND	ND



Alpha Scientific Corporation
Environmental Laboratories

Client: Greve Financial
Project: Angeles Chemical Co./FACC

Lab Job No.: BL803064
Matrix: Water

Date Reported: 03-24-2008
Date Sampled: 03-13/14-2008

EPA 8260B (VOCs by GC/MS, Page 2 of 2)

Reporting Unit: (ppb)

COMPOUND	MDL	PQL	MB	MW-13	MW-14	MW-15	MW-16	MW-17	MW-20
Toluene	1	1	ND	ND	ND	1.2	ND	ND	ND
Tetrachloroethene	2	2	ND	212	17.6	62.0	121	187	131
1,2-Dibromoethane(EDB)	2	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	2	5	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	1	ND	ND	ND	ND	118	ND	ND
Total Xylenes	2	2	ND	ND	ND	ND	ND	ND	ND
Styrene	2	5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	2	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloroproppane	2	5	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	2	5	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	2	5	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	2	5	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	2	5	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	2	5	ND	ND	ND	ND	423	ND	ND
Sec-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	2	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	2	5	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	2	5	ND	ND	ND	ND	ND	ND	ND
Naphthalene	2	5	ND	ND	ND	ND	97.0J	ND	ND
1,2,3-Trichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
Acetone	5	25	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	5	25	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	5	25	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	5	25	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	5	25	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	5	25	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	50	100	ND	ND	1,590J	181	4,990J	ND	ND
MTBE	2	2	ND	ND	ND	ND	ND	ND	ND
ETBE	2	2	ND	ND	ND	ND	ND	ND	ND
DIPE	2	2	ND	ND	ND	ND	ND	ND	ND
TAME	2	2	ND	ND	ND	ND	ND	ND	ND
T-Butyl Alcohol	10	10	ND	ND	ND	ND	ND	ND	ND

* : Obtained from a higher dilution analysis L : Obtained from a lower dilution analysis.

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank; ND=Not Detected (below DF ×MDL), j=trace concentration. SV=sample in special vial.



Alpha Scientific Corporation

Environmental Laboratories

Client: Greve Financial
Project: Angeles Chemical Co./FACC

Lab Job No.: BL803064
Matrix: Water

Date Reported: 03-24-2008
Date Sampled: 03-13-2008

EPA 8260B (VOCs by GC/MS, Page 1 of 2)

Reporting Unit: ppb

DATE ANALYZED		03-20	03-20-08	03-20-08	03-20-08	03-20-08	03-20-08	03-20-08
DILUTION FACTOR			20	1	1	1	100	1
LAB SAMPLE I.D.			BL80306 4-9	BL803064 -11	BL80306 4-12	BL803064 -13	BL80306 4-14	BL80306 4-10
CLIENT SAMPLE I.D.			MW-21	MW-23	MW-24	MW-25	MW-26	Trip Blank
COMPOUND	MDL	PQL	MB					
Dichlorodifluoromethane	2	5	ND	ND	ND	ND	ND	ND
Chloromethane	2	5	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1	2	ND	739	ND	ND	ND	ND
Bromomethane	2	5	ND	ND	ND	ND	ND	ND
Chloroethane	2	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	2	5	ND	ND	29.3	13.3	16.4	ND
1,1-Dichloroethene	2	5	ND	1,820	83.0	41.2	32.0	7,170
Iodomethane	2	5	ND	ND	ND	ND	ND	ND
Methylene Chloride	2	5	ND	ND	ND	ND	ND	6,360
trans-1,2-Dichloroethene	2	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1	2	ND	2,640	ND	ND	ND	1,790
2,2-Dichloropropane	2	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	2	5	ND	2,910	8.8	11.4	3.3J	17,900
Bromochloromethane	2	5	ND	ND	ND	ND	ND	ND
Chloroform	2	5	ND	ND	22.5	8.7	6.6	ND
1,2-Dichloroethane	2	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	5	ND	70.4J	ND	ND	ND	2,140
Carbon tetrachloride	2	5	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
Benzene	1	1	ND	54.6	ND	ND	ND	86.0J
Trichloroethene	2	2	ND	154	104	81.9	98.7	335
1,2-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	2	5	ND	ND	ND	ND	ND	ND
Dibromomethane	2	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	2	5	ND	ND	ND	ND	ND	ND
1,3-Dichloropropene	2	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	2	5	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	2	5	ND	ND	ND	ND	ND	ND
Bromoform	2	5	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2	5	ND	ND	ND	ND	ND	ND
Bromobenzene	2	5	ND	ND	ND	ND	ND	ND



Alpha Scientific Corporation
Environmental Laboratories

Client: Greve Financial

Lab Job No.: BL803064

Date Reported: 03-24-2008

Project: Angeles Chemical Co./FACC

Matrix: Water

Date Sampled: 03-13-2008

EPA 8260B (VOCs by GC/MS, Page 2 of 2)

Reporting Unit: (ppb)

COMPOUND	MDL	PQL	MB	MW-21	MW-23	MW-24	MW-25	MW-26	Trip Blank
Toluene	1	1	ND	ND	ND	ND	ND	5,860	ND
Tetrachloroethene	2	2	ND	191	195	281	47.7	1,130	ND
1,2-Dibromoethane(EDB)	2	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	2	5	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	1	ND	ND	ND	ND	ND	1,390	ND
Total Xylenes	2	2	ND	40.6	ND	ND	ND	3,260	ND
Styrene	2	5	ND	ND	ND	ND	ND	930	ND
1,1,2,2-Tetrachloroethane	2	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	2	5	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	2	5	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	2	5	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	2	5	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	2	5	ND	ND	ND	ND	ND	116J	ND
tert-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	2	5	ND	ND	ND	ND	ND	347J	ND
Sec-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	2	5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	2	5	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	2	5	ND	ND	ND	ND	ND	ND	ND
Naphthalene	2	5	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	2	5	ND	ND	ND	ND	ND	ND	ND
Acetone	5	25	ND	ND	ND	ND	ND	8,800	ND
2-Butanone (MEK)	5	25	ND	ND	ND	ND	ND	2,030J	ND
Carbon disulfide	5	25	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	5	25	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	5	25	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	5	25	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	50	100	ND	ND	ND	ND	ND	ND	ND
MTBE	2	2	ND	ND	ND	ND	ND	ND	ND
ETBE	2	2	ND	ND	ND	ND	ND	ND	ND
DIPE	2	2	ND	ND	ND	ND	ND	ND	ND
TAME	2	2	ND	ND	ND	ND	ND	ND	ND
T-Butyl Alcohol	10	10	ND	ND	ND	ND	ND	ND	ND

*: Obtained from a higher dilution analysis L : Obtained from a lower dilution analysis.

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank; ND=Not Detected (below DF ×MDL), j=trace concentration.



03-24-2008

**EPA 8015M
Batch QA/QC Report**

Client:	Greve Financial	Lab Job No.:	BL803064
Project:	Angeles Chemical Co./FACC		
Matrix:	Water	Lab Sample ID:	SW80320-1
Batch No.:	BMC20-GW1	Date Analyzed:	03-20-2008

**I. MS/MSD Report
Unit: ppb**

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-g	ND	1000	930	1,030	93.0	103.0	10.2	30	70-130

**II. LCS Result
Unit: ppb**

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
TPH-g	978	1,000	97.8	80-120

ND: Not Detected (at the specified limit).



03-24-2008

**EPA 8260B
Batch QA/QC Report**

Client: Greve Financial Lab Job No.: BL803064
Project: Angeles Chemical Co./FACC
Matrix: Water Lab Sample ID: SW80320-1
Batch No: 0320-VOBW1 Date Analyzed: 03-20-2008

**I. MS/MSD Report
Unit: ppb**

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS % Rec.	MSD % Rec.	% RPD	% RPD Accept. Limit	% Rec Accept. Limit
1,1-Dichloroethene	ND	20	17.4	17.9	87.0	89.5	2.8	30	70-130
Benzene	ND	20	19.4	19.2	97.0	96.0	1.0	30	70-130
Trichloro-ethene	ND	20	18.1	18.7	90.5	93.5	3.3	30	70-130
Toluene	ND	20	19.7	18.1	98.5	90.5	8.5	30	70-130
Chlorobenzene	ND	20	18.5	19.4	92.5	97.0	4.7	30	70-130

**II. LCS Result
Unit: ppb**

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	19.1	20.0	95.5	80-120
Benzene	21.6	20.0	108.0	80-120
Trichloro-ethene	20.6	20.0	103.0	80-120
Toluene	21.7	20.0	108.5	80-120
Chlorobenzene	21.2	20.0	106.0	80-120

ND: Not Detected (at the specified limit).



ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Page 1 of 1

Lab Job Number BL803064

Client: <u>GREVE Financial Services</u>		Analyses Requested																		
Address: <u>P.O. BOX 1684 Lomita, CA 90717</u>		T.A.T. Requested																		
Report Attention <u>Jos Kennedy</u>	Phone <u>3107535703</u>	Fax <u>3108333349</u>	Sampled by <u>AR2A Whelock</u>		<input type="checkbox"/> Rush 8 12 24 hrs <input checked="" type="checkbox"/> 2-3 days <input checked="" type="checkbox"/> Normal															
Project Name/No. <u>AN6elos</u>	Project Site <u>8915 Sorensen Ave SFS</u>		Sample Condition																	
		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample seals																		
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No.,type* & size of container	8015M (Gasoline)		8015M(Diesel)		8260B(BTEX, Oxygenates)		8260B (VOCs)		8270C(SVOCs)		CAM Metals		Remark	
		Date	Time																	
MW 9	BL803064-1	3/13	3:00P				X					X								
MW 12	-4	1	10 AM					X					X							
MW 13	-5	1	11:45A						X				X							
MW 15	-6		9:15A						X				X							
MW 16	-7		4PM						X				X							
MW 17	-8		2:30P						X				X							
MW 18	NOSample		11:15A						X				X							
MW 21	-9		10:45A						X				X							
MW 22	NOSample		10:25A						X				X							
MW 23	-11		3:30P						X				X							
MW 24	-12		4:30P						X				X							
MW 25	-13		9:25A						X				X							
MW 26	-14		8:40A						X				X							
MW 10 DUPE	-3		1:30P						X				X							
MW 10	-2		1:30P						X				X							
Trip Blank	-10		—																	
Relinquished by <u>Greve Financial Services</u>	Company	Date 3/13/08	Time	Relinquished by <u>ASC</u>	Company	Date 3/13/08	Time	Container types: M=Metal Tube A=Air Bag G=Glass bottle												
Relinquished by <u>Greve Financial Services</u>	Company	Date	Time	Relinquished by	Company	Date	Time	P=Plastic bottle V=VOA vial												



ALPHA SCIENTIFIC CORPORATION
CHAIN OF CUSTODY RECORD

Page 1 of 1

Lab Job Number BL803064

Client: <u>GREVE Financial Socs Inc</u> Address: <u>PO BOX 1684 LOMITA CA 90717</u> Report Attention: <u>Vog K</u> Phone: <u>310755710</u> Fax: <u>3108333349</u> Sampled by: <u>ALW</u> Project Name/No.: <u>Angeles</u> Project Site: <u>8915 Sorensen SFS</u>						Analyses Requested						T.A.T. Requested	
Client Sample ID	Lab Sample ID	Sample Collect		Matrix Type	Sample Preserv	No.,type* & size of container	8015M (Gasoline)	8015M(Diesel)	8260B(BTEX, Oxygenates)	8260B (VOCs)	8270C(SVOCs)	CAM Metals	Sample Condition
		Date	Time										
MW-8	BL803064-15	3/14	750	NA		2/40	X		X				Chilled <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>
MW-11	-16	3/14	815	11		2/40	X		X				<input type="checkbox"/> Sample seals
MW-14	-17	3/14	835	11		2/40	X		X				
MW-20	-18	3/14	900	11		2/4	X		X				
Relinquished by <u>Dave Zehnle</u>	Company	Date 3/14	Time 10:15	Relinquished by <u>Gloria</u>	Company Ass	Date 3/14-08	Time 10:15	Container types: M=Metal Tube A=Air Bag G=Glass bottle P=Plastic bottle V=VOA vial					
Relinquished by <u></u>	Company	Date	Time	Relinquished by <u></u>	Company	Date	Time						

APPENDIX D

SVE

OPERATING

PROCEDURES

SOP for SVE Sample Collection

SVE MONITORING PROTOCOL

The purpose of a carbon-based SVE monitoring program is to provide data to the DTSC regarding the removal of VOCs on a quarterly basis. SVE monitoring consists of such activities as collection of SVE samples, field analysis, laboratory analysis, and reporting.

The standard protocol for fieldwork is as follows. A CSI technician checks and records the vacuum at the inlet to the first carbon canister and records the gas flow rate (in cubic feet per minute, cfm). The concentration of the **influent** gas is then measured with a photo-ionization detector (PID) and recorded. The concentration of the influent gas to the second and third carbon canisters are measured in order with the PID and recorded. The **effluent** gas from the third canister is then measured with the PID and recorded. A Tedlar™ bag gas sample is then collected from the intake side of the first carbon canister. On a weekly basis (or as needed), the water knockout pot is monitored and any water in the pot is removed and stored in a 55-gallon drum for proper disposal. On a monthly basis, each of the extraction wells is gauged for VOCs with a PID and recorded. The PID readings are reviewed and the five wells with the highest readings are kept open and the others shut off. The old recording chart is removed and labeled and a new chart is installed. The SVE unit is then turned back on.

Calibration of Instruments

The calibration gas for the PID is hexane. The PID calibration reading, to an hexane standard of 100 ppm, must be 99% or higher.

Sample Handling

The standard protocol for handling samples is for the sampling personnel to wear new nitrile gloves to prevent cross-contamination of Tedlar™ bag samples. A label which is affixed to each bag sample is marked denoting its date and time of sampling. Each bag sample is given an identifying code to distinguish it from other samples.

Waste Management

The condensate wastes generated during a monitoring period were collected on April 10, 2008 by Clear Blue Inc., a licensed wastewater carrier.